API Well No: 43037500060000 Received: 8/26/2010

STATE OF UTAH  DEPARTMENT OF NATURAL RESOURCES  DIVISION OF OIL, GAS AND MINING						FORI		
APPLI	CATION FOR	PERMIT TO DRILL	-		1. WELL NAME and	NUMBER TOHONADLA 1-E		
2. TYPE OF WORK  DRILL NEW WELL	REENTER P8	A WELL DEEPE	N WELL		3. FIELD OR WILDO	CAT TOHONADLA		
4. TYPE OF WELL Oil We	ell Coalb	ed Methane Well: NO			5. UNIT or COMMU	NITIZATION AGREE	MENT NAME	
6. NAME OF OPERATOR	NAVAJO NATION	OIL & GAS CO			7. OPERATOR PHO	NE 303 534-8300		
8. ADDRESS OF OPERATOR P.O.	Box 4439, Wind	ow Rock, AZ, 86515			9. OPERATOR E-MA	IL rminario@nnogc.com	1	
10. MINERAL LEASE NUMBER (FEDERAL, INDIAN, OR STATE)		11. MINERAL OWNE			12. SURFACE OWN			
1420603270	- !faa!\	FEDERAL IND	IAN 📵 STATE (	) FEE(_)		DIAN 📵 STATE (	FEE()	
13. NAME OF SURFACE OWNER (if box 12					14. SURFACE OWN	•	•	
15. ADDRESS OF SURFACE OWNER (if box	12 = 'fee')				16. SURFACE OWN	ER E-MAIL (if box 1	.2 = 'fee')	
17. INDIAN ALLOTTEE OR TRIBE NAME (if box 12 = 'INDIAN')		18. INTEND TO COM MULTIPLE FORMATI		ION FROM	19. SLANT			
NAVAJO NATION		YES (Submit C	commingling Applicat	ion) NO 📵	VERTICAL 📵 DIF	RECTIONAL 📗 HO	ORIZONTAL 🔵	
20. LOCATION OF WELL	FC	OTAGES	QTR-QTR	SECTION	TOWNSHIP	RANGE	MERIDIAN	
LOCATION AT SURFACE	2081 F	NL 417 FWL	SWNW	1	42.0 S	21.0 E	S	
Top of Uppermost Producing Zone	2081 F	NL 417 FWL	SWNW	1	42.0 S	21.0 E	S	
At Total Depth	2081 F	NL 417 FWL	SWNW	1	42.0 S	21.0 E	S	
21. COUNTY SAN JUAN		22. DISTANCE TO N	<b>EAREST LEASE LIN</b> 559	E (Feet)	23. NUMBER OF AC	RES IN DRILLING U	JNIT	
		25. DISTANCE TO N (Applied For Drilling		AME POOL	<b>26. PROPOSED DEPTH</b> MD: 6850 TVD: 6850			
27. ELEVATION - GROUND LEVEL		28. BOND NUMBER			29. SOURCE OF DRILLING WATER / WATER RIGHTS APPROVAL NUMBER IF APPLICABLE			
4683			BIA RLB0006712		09-135			
		A	TTACHMENTS					
VERIFY THE FOLLOWING ARE ATTACHED IN ACCORDANCE WITH THE UTAH OIL AND GAS CONSERVATION GENERAL RULES								
VERIFY THE FOLLOWING	ARE ATTACH	ED IN ACCORDAN	CE WITH THE U	TAH OIL AND G	GAS CONSERVATI	ON GENERAL RU		
VERIFY THE FOLLOWING  WELL PLAT OR MAP PREPARED BY				PLETE DRILLING		ON GENERAL RU		
	LICENSED SUF	EVEYOR OR ENGINEER	R COM	PLETE DRILLING				
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WELL PLAT OR MAP PREPARED BY  AFFIDAVIT OF STATUS OF SURFACE  DIRECTIONAL SURVEY PLAN (IF DIDRILLED)  NAME Al Zier	E OWNER AGRE RECTIONALLY	EVEYOR OR ENGINEER EMENT (IF FEE SURF OR HORIZONTALLY ITLE Operations/Produce	COM	PLETE DRILLING	PHONE 30	HE LEASE OWNER		

API Well No: 43037500060000 Received: 8/26/2010

Proposed Hole, Casing, and Cement					
String	Hole Size	Casing Size	Top (MD)	Bottom (MD)	
Cond	20	16	0	60	
Pipe	Grade	Length	Weight		
	Grade K-55 ST&C	1385	24.0		
	Grade J-55 LT&C	6835	17.0		

Navajo Nation Oil & Gas Co., Inc. Tohonadla 1-E 2081' FNL & 417' FWL Sec. 1, T. 42 S., R. 21 E. San Juan County, Utah

### Drilling Program

### 1. FORMATION TOPS

The estimated tops of important geologic markers are:

<u>Formation</u>	GL Depth	KB Depth	Elevation
Carmel Sandstone	0'	15'	+4,683'
Navajo Sandstone	193'	208'	+4,490'
Kayenta Sandstone	553'	568'	+4,130'
Wingate Sandstone	603'	618'	+4,080'
Chinle Shale	1,083'	1,098'	+3,600'
Shinarump Sandstone	1,673'	1,688'	+3,010'
Moenkopi Sand & Mud Stones	1,908'	1,9723'	+2,775
DeChelly Ss/Mdst/Shale	2,098'	2,113'	+2,585'
Organ Rock Shale/Sltst/Ss	2,293'	2,308'	+2,390'
Lower Cutler Slts/Ss/Shale	3,018'	3,033'	+1,665'
Honaker Trail Ls/Sltst/Shale	4,073'	4,088'	+610'
Paradox Ls/Sltst/Marls/Shale	4,613'	4,628'	+70'
Ismay Ls/Dolo/Marls/Shale	4,917'	4,932'	-234'
Lower Ismay Ls/Dolo/Marls/Shale	4,993'	5,008'	-310'
Desert Creek Ls/Dolo/Marls/Shale	5,078'	5,093'	-395'
Akah Member	5,275'	5,290'	-592'
Barker Creek Ls/Dolo/Anhy/Shale	5,452'	5,467'	-769'
Pinkerton Trail Ls/Dolo/Anhy/Shale	5,635'	5,650'	-952'
Molas Mudst/Slt/Ls/Shale	5,863'	5,878'	-1,180'
Leadville Limestone/Dolomite	6,038'	6,053'	-1,355'
Total Depth (TD)	6,850'	6,865'	-2,167'

### 2. NOTABLE ZONES

Desert Creek and Ismay oil production is the primary goal. Upper Leadville oil



Navajo Nation Oil & Gas Co., Inc. Tohonadla 1-E 2081' FNL & 417' FWL Sec. 1, T. 42 S., R. 21 E. San Juan County, Utah

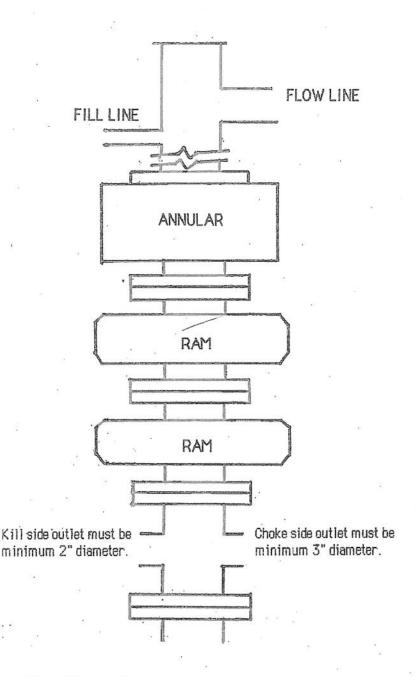
production is the secondary goal. Oil and gas shows which appear to the well geologist to be commercial will be tested. All fresh water and prospectively valuable minerals will be recorded by depth and protected with casing and cement. Likely fresh water zones are the Glen Canyon group of sandstones.

### 3. PRESSURE CONTROL

A 13-5/8" 3,000 psi double ram and annular preventer with a 3,000 psi choke manifold will be used. A diagram of a typical BOP is on Page 3. Actual model will not be known until bid is let. Procedures are ...

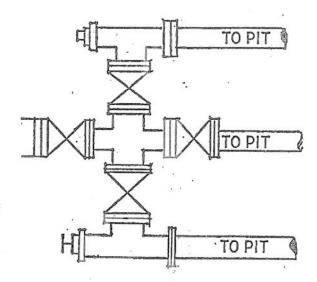
- Nipple up BOP and all equipment
   Test to 250 #/3,000#
   Test Hydril to 2,000 psi
   Log in I. A. D. C. book
- Drill 1/2 of shoe joint
   Test to 1,500 psi for 30 minutes
   Log in I. A. D. C. book
- Activate BOPs every 24 hours or on trips and log in I. A. D. C. book
- Install hand wheels and lay straight flare line before drilling out
- Conduct weekly BOP drills with each crew and log in I. A. D. C. book
- Have floor valve and wrench on floor at all times
   Floor valve must be in open position
- Before drilling surface casing shoes, blind rams will be closed. BOP and surface casing will be pressure tested to 1,500 psi for a total test time of 30 minutes if not previously tested by Halliburton during cement job.
- Studs on all well head and BOP flanges will be checked for tightness weekly
- Hand wheels for locking screws will be installed and operational
- Entire BOP and well head assembly will be kept clean of mud
- A drill stem safety valve in the open position will be available
- Call BLM at (505 599-8900) and the Utah Division of Oil, Gas, & Mining at (801 538-5340) before testing BOPs





# TYPICAL BOP STACK & CHOKE MANIFOLD

There will be at least 2 chokes and 2 choke line valves (3" minimum). The choke line will be 3" in diameter. There will be a pressure gauge on the choke manifold.



Kill line will be minimum 2" diameter and have 2 valves, one of which shall be a minimum 2" check valve.

Upper kelly cock will have handle available.

Safety valve and subs will fit all drill string connections in use.

All BOPE connections subjected to well pressure will be flanged, welded, or clamped.



Navajo Nation Oil & Gas Co., Inc. Tohonadla 1-E 2081' FNL & 417' FWL Sec. 1, T. 42 S., R. 21 E. San Juan County, Utah

### 4. CASING & CEMENT

Hole Size	O. D.	Weight	<u>Grade</u>	Age	Coupling	Burst/Collapse	Depth Set
20"	16"		Conductor	New			60'
12-1/4"	8-5/8"	24#	J or K-55	New	ST&C	2,950/1,370	1,400'
7-7/8"	5-1/2"	17#	J or K-55	New	LT&C	5,320/4,910	6,850'

Conductor pipe will be cemented to the surface with ready-mix.

Surface casing will be set at least 200' into the Chinle and cemented to the surface with  $\approx 50\%$  excess. Lead with  $\approx 325$  sacks ( $\approx 633$  cubic feet) Halliburton light with 5 pounds per sack gilsonite + 1/4 pound per sack cellophane mixed at 12.4 pounds per gallon and 1.95 cubic feet per sack. Tail with  $\approx 200$  sacks ( $\approx 238$  cubic feet) standard cement + 1% CaCl<sub>2</sub> + 1/4 pound per sack cellophane mixed at 15.6 pounds per gallon and 1.19 cubic feet per sack. Centralizers will be placed  $\approx 5$ ' off the bottom and on the first three joints and the fifth joint.

Production casing will be cemented with  $\approx$ 40% excess to  $\approx$ 1,200' (i. e.,  $\geq$ 200' above surface casing shoe). Lead with  $\approx$ 510 sacks ( $\approx$ 994 cubic feet) Halliburton light with 5 pounds per sack gilsonite + 1/4 pound per sack cellophane mixed at 12.4 pounds per gallon and 1.95 cubic feet per sack. Tail with  $\approx$ 335 sacks ( $\approx$ 422 cubic feet) premium with 5 pounds per sack gilsonite + 0.6% Halad 9 + 0.25 CFR-3 mixed at 15.2 pounds per gallon and 1.26 cubic feet per sack. Centralizers will be set on the shoe joint, top of the second and third joints, and continue through and above pay zones at  $\approx$ 90' intervals.

### 5. MUD PROGRAM

<u>Interval</u>	<u>Weight</u>	Viscosity	Fluid Loss	<u>Type</u>
0 -1,400'	8.3 - 8.7	27 - 32	N/C	Fresh H <sub>2</sub> O gel lime spud mud, pH 9
1,400' - TD	8.4 - 10.0	38 - 40	8 cc	Fresh water gel & PHPA, SAPP, etc



Navajo Nation Oil & Gas Co., Inc. Tohonadla 1-E 2081' FNL & 417' FWL Sec. 1, T. 42 S., R. 21 E. San Juan County, Utah

Cuttings will be collected every  $\approx 30$ ' from the surface to  $\approx 5,500$ '. Cuttings will be collected every  $\approx 10$ ' from  $\approx 5,500$ ' to TD.

### 6. CORES, LOGS, & TESTS

Cores may be cut depending upon shows, most likely in the Desert Creek. GR - Sonic and DLL-Micro-SFL log suites will be run from TD to the surface. FDC-CNL logs will be run from TD to  $\approx 4,000$ '. No drill stem tests are currently planned.

A geologist or mud logger will be on site from ≈4,000' to TD.

### 7. DOWN HOLE CONDITIONS

No abnormal temperatures or abnormal pressures are expected. Maximum expected bottom hole pressure will be ≈2,945 psi. Hydrogen sulfide is expected in the Mississippian, just below the Pinkerton. A contingency plan is attached.

### 8. OTHER INFORMATION

The anticipated spud date is April 1, 2008. It is expected it will take  $\approx$ 3 weeks to drill and  $\approx$ 2 weeks to complete the well.

Navajo Nation Oil & Gas Co., Inc. is requesting an exception due to geology. The location is based on seismic. The well is staked at 2081' FNL & 417' FWL 1-42s-21e on 320 acre Tribal lease 14-20-603-270. Thus, it is 43' too far west.

Navajo Nation Oil & Gas Co., Inc. is requesting permission to drill at 2081' FNL



Navajo Nation Oil & Gas Co., Inc. Tohonadla 1-E 2081' FNL & 417' FWL Sec. 1, T. 42 S., R. 21 E. San Juan County, Utah

& 417' FWL 1-42s-21e. This is the only well, existing or planned, in the quarter-quarter. The closest (1,133') existing or planned well is the Navajo Nation Oil & Gas Co., Inc. proposed Tohonadla 1-E at 1119 FNL & 1017 FWL 1-42s-21e.

Closest lease line is 559' south. Navajo Nation Oil & Gas Co., Inc. or ST Oil Company are the owners of all drilling units within a minimum 559' radius of the proposed exception. ST Oil Company is a partner in the Tohonadla 1-E. Five of the 8 offset quarter-quarters are part of the same lease. The three remaining offset quarter-quarters are unleased Tribal lands. The quarter-quarter (SENE Sec. 2) toward which the well encroaches is part of the same lease.

Navajo Nation Oil & Gas Co., Inc. Tohonadla 1-E 2081' FNL & 417' FWL Sec. 1, T. 42 S., R. 21 E. San Juan County, Utah

Surface Use Plan

### 1. DIRECTIONS (See PAGES 12 - 15)

From the junction of US 163 and US 191 west of Bluff ....
Go South 8-1/4 miles on US 191 to the equivalent of mile post 13.1
Then turn left and go Northeast 0.7 miles on a sandy road to the 23 #1 well
Then bear right and go East 190.81' cross country to a surface pipeline
Then turn right and go Southeast 1,349.95' along the steel surface pipeline
Then bear right and go South 228.64' cross country to the proposed pad

Roads will be maintained to at least equal to their present condition.

### 2. ROAD WORK (See PAGES 14 & 15)

No upgrade is needed for the existing road. The 1,769.40' of new road will be built to BLM Gold Book standards. (The first 1,188.94 (= 190.81' + 998.13') may be built first if the Tohonadla 1-D is drilled first.) Road will have a  $\approx 14$ ' wide running surface and will be rocked where needed. No culvert, vehicle turn out, or cattle guard is needed. Maximum disturbed width will be 20'. Maximum cut or fill = 3'. Maximum grade = 4%.

### 3. EXISTING WELLS (See PAGE 13)

One water, two oil, and five plugged wells are within a mile radius. There are no gas or injection wells within a mile radius.

### 4. PROPOSED PRODUCTION FACILITIES (See PAGES 14 & 15)



Navajo Nation Oil & Gas Co., Inc. Tohonadla 1-E 2081' FNL & 417' FWL Sec. 1, T. 42 S., R. 21 E. San Juan County, Utah

A well head and gas powered pump will be installed on the pad. Both will be painted a flat Carlsbad tan. A 1,769.40' long  $\approx$ 4" O. D. steel pipeline will be laid along the road from the well to the proposed Tohonadla 35-P pipeline. The pipeline will be buried  $\approx$ 36" deep.

### WATER SUPPLY

Water will be trucked from Monument Resources' well on private land in 30-40s-22e near Bluff. Water right number is 09-135.

### 6. CONSTRUCTION METHODS & MATERIALS (See PAGES 16 & 17)

The top 6" of soil and brush will be stripped and stockpiled east of the pad. The pit subsoil will be piled east of the pit and separate from the topsoil. A diversion ditch will be cut south of the pad and east of the piles. A minimum 12 mil plastic liner will be installed in the reserve pit. The reserve pit will be fenced sheep tight on 3 sides with woven wire fence topped with barbed wire. The fourth side will be fenced once the rig moves off. The fence will be kept in good repair while the pit dries. Once dry, contents of the reserve pit will be buried in place.

Rock will be bought and trucked from private land near Bluff.

### 7. WASTE DISPOSAL

All trash will be placed in a portable trash cage and hauled to the county landfill. Human waste will be disposed of in chemical toilets. Toilet contents will be hauled to a state approved dump station off the reservation.



Navajo Nation Oil & Gas Co., Inc. Tohonadla 1-E 2081' FNL & 417' FWL Sec. 1, T. 42 S., R. 21 E. San Juan County, Utah

### 8. ANCILLARY FACILITIES

There will be no air strip or camp. Camper trailers will be parked on the pad for the company man, tool pusher, and mud logger.

### 9. WELL SITE LAYOUT

See PAGES 16 and 17 for drawings of the well pad, cross section, cut and fill diagram, reserve pit, trash cage, access onto the location, parking, living facilities, and rig orientation.

### 10. RECLAMATION

Reclamation starts once the reserve pit is dry, at which point it will be back filled. Liner top will be folded over contents and covered with  $\geq$ 24" of dirt. The reserve pit and any pad areas not needed for producing the well will be reclaimed as an interim measure. Once the well is plugged, the remainder of the pad and road will be reclaimed.

All reclamation will leave the terrain with a natural shape, slopes will be no steeper than 3 to 1, subsoil will be used to fill the reserve pit, all compacted areas will be ripped ≥12" deep with the contour, topsoil will be spread across all compacted areas and harrowed with the contour. A seed mix will be drilled as prescribed by BLM, BIA, or the Navajo Nation. Weeds will be controlled in accordance with BLM, BIA, or Tribal requirements.

### 11. SURFACE OWNER

All construction will be on Navajo Tribal surface. Tribal Project Review Office phone is (928) 871-6447. Address is P O Box 2249, Window Rock, AZ 86515.



Navajo Nation Oil & Gas Co., Inc. Tohonadla 1-E 2081' FNL & 417' FWL Sec. 1, T. 42 S., R. 21 E. San Juan County, Utah

### 12. OTHER INFORMATION

The nearest hospital is a  $\approx 1-1/4$  hour drive away in Monticello. It is 3 blocks northwest of the intersection of US 491 and US 163/191. Hospital phone number is (435) 587-2116. Or dial 1-800-332-1911 from anywhere in the county. Give the operator the latitude and longitude (see section plat (which is the second page of the APD)) of the well.

Chuck Yarbrough (BIA) and Charles Black (Permits West) conducted an on site inspection on June 13.

### 13. REPRESENTATION & CERTIFICATION

I hereby certify that I, or someone under my direct supervision, have inspected the drill site and access route proposed herein; that I am familiar with the conditions which currently exist; that I have full knowledge of state and Federal laws applicable to this operation; that the statements made in this APD package are, to the best of my knowledge, true and correct; and that the work associated with the operations proposed herein will be performed in conformity with this APD package and the terms and conditions under which it is approved. I also certify that I, or the company I represent, am responsible for the operations conducted under this application. These statements are subject to the provisions of 18 U. S. C. 1001 for the filing of false statements. Executed this <u>25th</u> day of <u>January</u>, <u>2008</u>.

Brian Wood, Consultant Permits West, Inc.

37 Verano Loop, Santa Fe, NM 87508

(505) 466-8120

FAX: (505) 466-9682

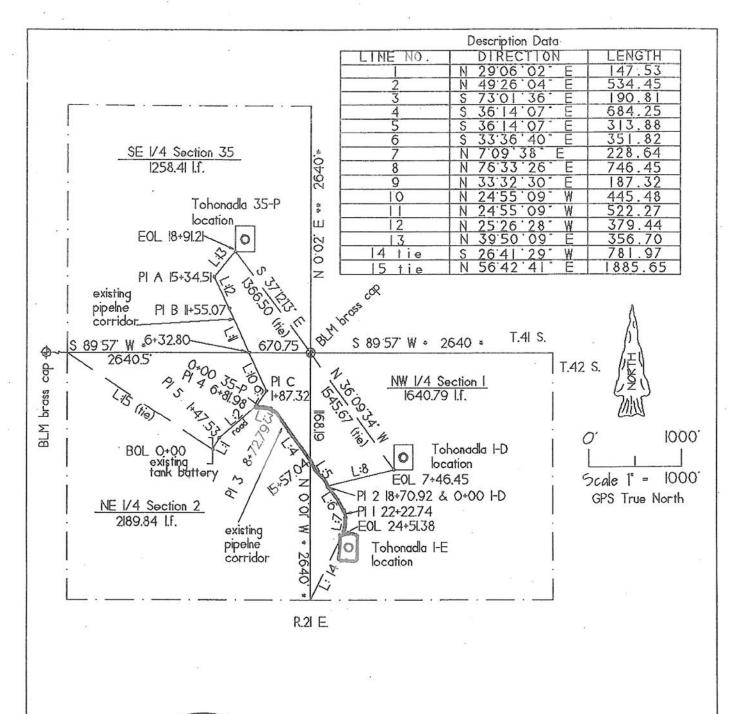
PERMITS WEST, INC.
PROVIDING PERMITS for LAND USERS

Mobile: (505) 699-2276

Navajo Nation Oil & Gas Co., Inc. Tohonadla 1-E 2081' FNL & 417' FWL Sec. 1, T. 42 S., R. 21 E. San Juan County, Utah

The field representative will be:

Wilson Groen Navajo Nation Oil & Gas Co., Inc. P. O. Box 4439 Window Rock, AZ 86515 (928) 871-4880





KNOW ALL MEN BY THESE PRESENTS that I Gordd G. Huddleuton, do hereby certify that this plat was prepared from field notes of an actual survey made by me or under my supervision and that the same is true and accurate to the best of my knowledge and belief.

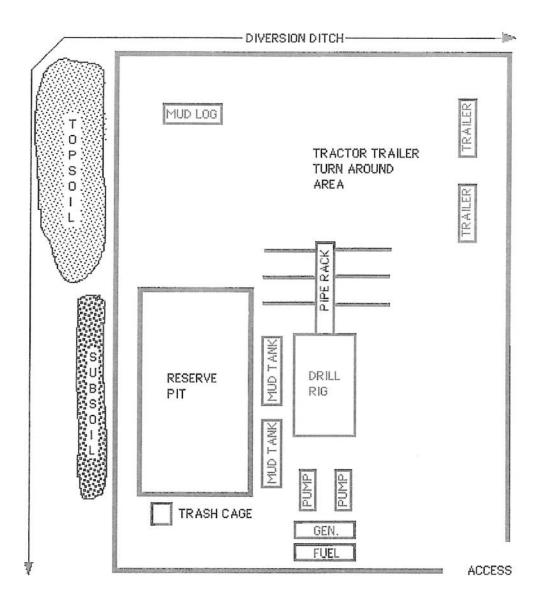
### Nava jo Nation Oil & Gas

Proposed pipeline & access to: Tohonadla I-D. I-E & 35-P Section I & 2. T.42 S., R.21 E. Section 35, T.42 S., R.21 E., SLM San Juan County. UT

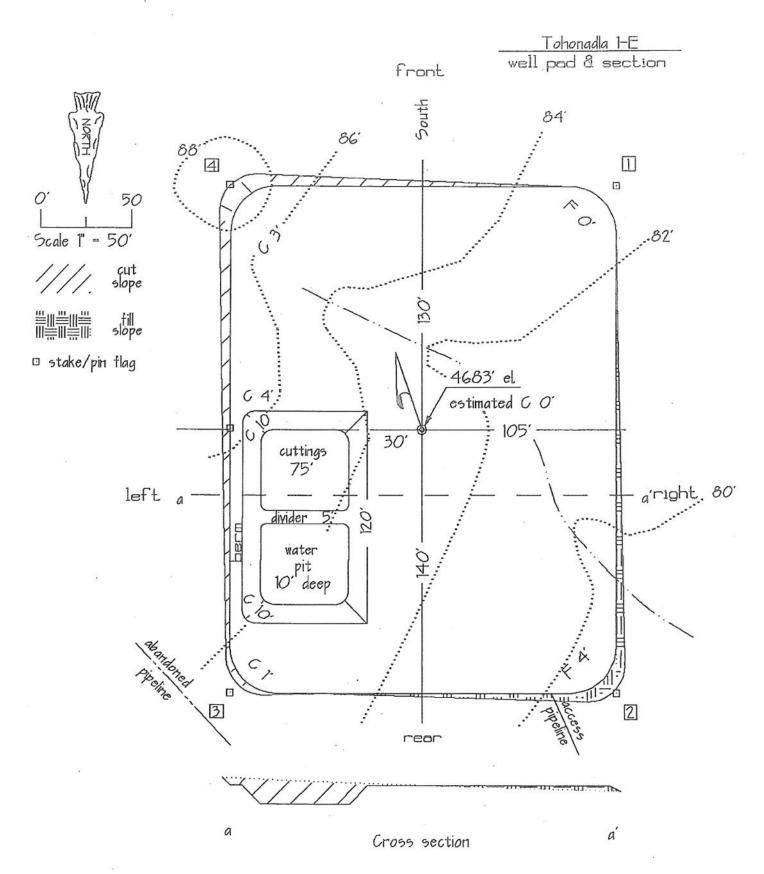
05 10 '07

Navajo Nation Oil & Gas Co., Inc. Tohonadla 1-E 2081' FNL & 417' FWL Sec. 1, T. 42 S., R. 21 E. San Juan County, Utah PAGE 16









Hydrogen Sulfide (H<sub>2</sub>S) Contingency Plan For Navajo Nation Oil & Gas Co. Inc.'s

Tohonadla 1-D

1119' FNL & 1017' FWL Sec. 1 T42S R21E

Tohonadla 1-E

2081' FNL & 417' FWL Sec. 1 T42S R21E

Tohonadla 35-P

1219' FSL & 722' FEL Sec. 35 T41S R21E

San Juan County, Utah

Navajo Nation Oil & Gas, Inc Post Office Box 4439 Window Rock, Arizona 86515





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### Checklist for Drilling, Workover, and Maintenance in H2S Environment

- 1. Two safety briefing areas at least 100 yards from well head and arranged so that one briefing area will be upwind at all times. These sites should be located uphill whenever possible. (see Appendix 3.2)
- 2. Identify direction of prevailing winds (see Appendix 3.2)
- 3. At least two wind socks installed at all times
- 4. Primary and secondary emergency escape routes (flagged trail minimum)
- 5. Number, types, and storage location of H<sub>2</sub>S emergency respirators for personnel, and number of personnel to be present onsite at any one time.
- H<sub>2</sub>S detector locations (3 minimum to include cellar or bell nipple and mud tanks at shale shaker). Type and location of visual and audible alarms to be used.
- 7. H<sub>2</sub>S evacuation and emergency training procedures and schedule (i.e. Contingency Plan)
- List of area residents within a two-mile radius, evacuation plan, and contact list (including agencies and individuals)
- Types and quantities of mud additives and scavengers to be available at location for H<sub>2</sub>S operations
- 10. Design features and operational procedures to be used to provide safe working environment (including a certification by the operator on the APD that all equipment meets standards for H<sub>2</sub>S service)
- 11. Appropriate warning signs and flags on all access roads
- 12. Provisions for blocking and monitoring access to location during critical incident
- 13. Ventilation fan under rig floor
- In event of uncontrolled blowout, designation of local official who has authority to ignite flow
- 15. Swabbing or drillstream fluids containing H<sub>2</sub>S should be put through a separator to permit flaring of gas. Flare should have a continuous pilot light to ensure ignition of all such gas.

### 1.0 General

### 1.1 Description of Hydrogen Sulfide Gas

Hydrogen Sulfide (H<sub>2</sub>S) is a colorless, transparent gas with a distinct and characteristic rotten-egg odor at low concentrations and not detectable by odor at high concentrations. H<sub>2</sub>S at higher concentrations and/or over longer periods of exposure paralyzes the olfactory sense for that specific ofer. The gas is extremely toxic to humans and can easily become dangerous and lethal. Extreme care and caution is needed to prevent injury and/or death. H<sub>2</sub>S has a specific gravity of 1.192 which is heavier than air. It tends, therefore, to accumulate in low places. This collection of gas can lead to dangerous concentrations in areas such as arroyos and drainages. H<sub>2</sub>S from "downhole" is often warmer than surface air and will therefore tend to rise and therefore affect workers above the escaping source. Hydrogen Sulfide is explosive and water soluble.

### 1.2 Toxicity

National Standards Institute standard: Z37.2-1972 Concentrations of Hydrogen Sulfide describes H2S toxicity in this way: Hydrogen Sulfide is an extremely toxic and irritating gas. Free hydrogen sulfide in the blood reduces its oxygen-carrying capacity, thereby depressing the nervous system. Hydrogen sulfide is oxidized quite rapidly to sulfates in the body, therefore no permanent aftereffects occur in cases of recovery from acute exposures unless oxygen deprivation of the nervous system is prolonged. There is no evidence that repeated exposures to hydrogen sulfide result in accumulative or systemic poisoning. Effects such as eye irritation, respiratory tract irritation, slow pulse rate, lassitude, digestive disturbances, and cold sweats may occur but these symptoms disappear in a relatively short time after removal from the exposure. Odors become detectable in concentrations low .008million parts per (California studies) but the sense of smell is lost after 2-15 minutes at 100 ppm.

### 1.3 H2S First Aid and Treatment Procedures

- Victim should be removed to fresh air immediately\*\*
- If victim is not breathing, rescue breathing or artificial breathing should be started immediately
- Treat for shock; keep victim warm and comfortable
- Call ambulance and/or doctor, take victim immediately to emergency room or other healthcare facility

\*\*The rescuer(s) should always wear personal protective equipment when attempting to rescue a  $H_2S$  victim. It is important to never increase the number of victims unnecessarily during a  $H_2S$  emergency.

### 2.0 Hydrogen Sulfide H2S Contingency Plan

### 2.1 Introduction

This plan provides required procedures to be followed to adequately provide for a safe H<sub>2</sub>S working environment. These required procedures include safety procedures, precautionary measures, and training for emergency and standard procedures. This document sets forth the responsibilities of the operator and all individuals and entities under employment or contract with the operator working in a sour gas (H<sub>2</sub>S) area.

To make this contingency plan effective and in order to provide a safe working environment, cooperation from all individuals in a necessity. To this end each person onsite must understand normal and emergency operating procedures for this site. Each individual onsite must have adequate information, training, and practice with the specific procedures described in this Contingency Plan. It is the responsibility of both the operator to provide adequate equipment, training, and procedures, as well as the individual "worker's" responsibility to participate fully in all H<sub>2</sub>S procedures, to familiarize themselves with the location of all safety equipment and features, and to keep equipment and procedures in working order and up to date.

In order for Navajo Nation Oil & Gas, Inc. to provide a safe working environment for all "workers" and individuals in the vicinity of the well the safeguards are put in place. Initiative lies with each and every individual for the safety of all. To this end the drilling foreman is required to and will enforce all safety procedures, for the benefit of all involved.

### 2.2 Purpose

It is Navajo Nation Oil & Gas, Inc.'s intention to provide a safe working environment for all employees, contractors, and others involved with the drilling of its wells. There exists the possibility of encountering toxic H<sub>2</sub>S gas during the construction, completion, and maintenance of the well. To such end, this H<sub>2</sub>S contingency plan will be put into effect after surface casing is drilled or when it is deemed necessary by the BLM in consultation with Navajo Nation Oil & Gas, Inc.'s geologist and management.

Safety procedures are established for each person's safety connected with the operation and for the safety of the residents of the local area.

These procedures will be strictly enforced by Navajo Nation Oil & Gas, Inc.'s foreman. Noncompliance may result in loss of pay or dismissal from the sight, job, or employment.

### 2.3 Operating Procedures

Before this H<sub>2</sub>S contingency plan is operational, all personnel that are to be involved with operation shall be thoroughly trained\* in the proper use of breathing apparatus\*\* (i.e. SCBAs and Escape Units), emergency procedures, and H<sub>2</sub>S first aid and rescue methods. An approved list of trained personnel will be supplied by the safety company and stored with the drilling foreman.

\*Required training for operation personnel will include, but not be limited to, H<sub>2</sub>S safety course from an approved training company, safety briefing on drill site of all safety equipment use and locations before the start of work for each and every person onsite, safety related training in-place, on-site 1,000 feet before the first H<sub>2</sub>S formation.

\*\*Throughout this contingency plan breathing apparatus shall be understood as

- a) A Self-Contained Breathing Apparatus (SCBA) manufactured such as Scott Industrial c100 or similar.
- b) Or an emergency Escape Unit such as the Scott SCRAM or Elsa (or similar) often referred to as hip packs, hoods, or pony bottles.

The two types of breathing apparatus will be differentiated as a SCBA or an Escape Unit as required.

### 2.3.1 Safety Equipment

<u>Personal H<sub>2</sub>S monitors</u>- Every person onsite will be required to wear a personal H<sub>2</sub>S monitor at all times while onsite. Monitors will not be worn on hard hats, but should be worn on the waist belt or preferably near the chest in-front.

Breathing Apparatus- all personnel on the drill site will be assigned an individual breathing apparatus unit. This may be either an escape unit or a SCBA unit. A minimum of two SCBA type units will be onsite. These units will be used by the team whose duty it is to serve as the onsite rescue team.

Monitoring and Recording Devices-An experienced safety company (such as DXP Safety Alliance, Farmington, NM) will responsible for the installation and monitoring of H<sub>2</sub>S detectors placed on site. These units will be tested and recalibrated as the safety company requires. If H<sub>2</sub>S is detected, the monitors will be tested and recalibrated at least every 12 hours. This monitoring system may or may not be integral to the required two stage alarm system on site. This two stage system (visual and audio) will have a minimum of three H<sub>2</sub>S detector locations. Monitors will be located 1), in the cellar or on the bell nipple, 2), at the mud tanks' shale shaker, and 3), to be determined by the safety company. Visual (light) and audio (siren) will activate when H<sub>2</sub>S concentrations reach 10 ppm.

<u>First-Aid and rescue equipment-Stored on-site</u>, but ideally up-hill and upwind from H<sub>2</sub>S sources a minimum of one "rescue pack" will contain at least:

- 1 backboard, straps, headblocks
- a set of cervical collars (s-xl)
- 1 bag valve mask
- 1 bottle of oxygen
- gauze and other standard first-aid items

suggested 1 AED (automatic external defibrillator).

Gas Monitor-An appropriate monitor should be on-site that can measure for LLE, VOC, and other explosive or hazardous gasses.

### 2.3.2 Safety Procedures

<u>Cascade System</u>- Every person required to perform duties within "safety zones" (see list below) will be provided with breathing equipment attached to a cascade air system. These areas are as follows

- rig floor
- mud pit
- derrick
- shale shaker
- mud hopper and bulk hopper
- all hazardous locations will be accessible by hose and work pack (SCBA)

Escape Routes- Two escape routes will be at a minimum flagged and kept clear at all times.

<u>Safety Briefing Areas-</u>Two safety briefing areas will be located at the end of escape routes (see above). The briefing areas will be clearly marked, up-hill, and located so that one site is always up wind. Please see attached site map for safety briefing areas in Appendix 3.4.

<u>Safety</u>, <u>first-aid</u>, <u>and rescue equipment</u>-Will be stored properly onsite using best practices. This will include proper maintenance and scheduled testing, inspection, and training/practice.

Service companies- All service companies will be briefed regarding potential hazards of the well site including the presence (or potential for) H<sub>2</sub>S. These companies will be required to provide breathing apparatus and training to their employees. No service company personnel will be allowed onsite without meeting these requirements. In addition a safety briefing under the direction of the drill foreman regarding site specific H<sub>2</sub>S procedures will be provided to each new personnel member reporting on-site.

<u>Drills</u> and <u>practice</u> Drills reviewing all and any safety procedures including evacuation, rescue, and proper procedures to shut-in a well, and identify source of H<sub>2</sub>S in instance of a leak will be practiced under the supervision of the safety company representative and company foreman. Proper use of breathing apparatus will be instructed during such drills. Drill schedule will be designed to familiarize new personnel with all safety procedures. Each crew should also be familiar with all operations. Drills should include a short work period in safety equipment.

Warning Signs- Warning signs will be posted at all access roads. "No smoking" signs will be posted at access points as well. Signs will be posted more than 200 feet and no more that 500 from well pad. When H<sub>2</sub>S is present at 10 ppm or greater a red flag shall be displayed on the warning sign. Gates, road barricades, and/or gate guards will be used if necessary to prevent access during critical or hazardous situations.

<u>Wind Socks-</u> A minimum of two wind socks should be installed at locations easily observable from all work areas. If more than two windsocks are needed in order to allow "workers" at all times to easily identify the wind direction; more windsock will be installed.

Vehicle Parking- Vehicles should be parked 200ft from well site with their noses pointing away from the well site. Preferably vehicles will be located up hill and up wind from the well along the escape route.

Testing Fluids- Swabbing and testing fluids containing H<sub>2</sub>S will be pass through a separator to permit flaring of the gas. There will be a pilot light in such instances.

<u>Bug Blowers</u>- Circulation will be provided by explosion proof electric fans to all critical locations when necessary.

Drills reviewing all and any safety procedures including evacuation, rescue, and proper procedures to shut-in a well, and identify source of H<sub>2</sub>S in instance of a leak will be practiced under the supervision of the safety company representative and company foreman. Proper use of breathing apparatus will be instructed during such drills. Drill schedule will be designed to familiarize new personnel with all safety procedures. Each crew should also be familiar with all operations. Drills should include a short work period in safety equipment.

### 2.3.3 Working Conditions

Occupational Safety and Health Administration (OSHA) has set guidelines for Permissible Exposure Limits (PEL) This standard is to be considered the threshold never to be exceeded for the health and safety of all workers on this site. Ideally, exposure would never be this high.

### 2.3.3.1 Exposure Limits

OSHA Permissible Exposure Limit (PEL) for General Industry: 29 CFR 1910.1000 Z-2 Table -- Exposures shall not exceed 20 ppm (ceiling) with the following exception: if no other measurable exposure occurs during the 8-hour work shift, exposures may exceed 20 ppm, but not more than 50 ppm (peak), for a single time period up to 10 minutes.

OSHA Permissible Exposure Limit (PEL) for Construction Industry: 29 CFR 1926.55 Appendix A -- 10 ppm, 15 mg/m³ TWA (accessed via the internet at: <a href="http://www.osha.gov/dts/chemicalsampling/data/CH\_246800.html#exposure">http://www.osha.gov/dts/chemicalsampling/data/CH\_246800.html#exposure</a> on 19 July 2007)

The maximum exposure limit for an 8 hour day is less than 10 ppm.

### 2.4 H2S Emergency Procedures

### 2.4.1 Incident

H<sub>2</sub>S alarm system activation. Light and siren warnings or personal H<sub>2</sub>S monitor activation for any one "worker."

### 2.4.2 Primary Emergency Procedure

- All rig crew personnel and all auxiliary personnel must DON BREATHING APPARATUS IMMEDIATELY.
- ii. Rig crew should mask up with SCBA type work packs preferentially
- iii. All auxiliary crew should move to safety briefing area, uphill and upwind.
- iv. All non-essential personal should continue to evacuate site.
- 2.4.3 Secondary Emergency Procedure
- I. Supervisory Personnel
  - Company Foreman
    - a. Proceed to cascade trailer and check for safe operation of cascade system
    - b. Proceed to active safety briefing areas and account for all personnel. If all personnel are not accounted for initiate appropriate search.
    - c. Return to drilling floor and supervise operations
  - ii. Toolpusher
    - a. Proceed to cascade trailer and check if Company Foreman is operating cascade system safely. If NOT ensure safe operations of the cascade system.
    - b. Proceed to drilling floor and supervise operations. Make sure all crew memebers are accounted for and institute buddy system. If all personnel are not accounted for, initiate appropriate search.

### II. Rig Crew

- i. Driller
  - a. if drilling

- 1. after donning breathing apparatus proceed to console and raise Kelly to slip set position
  - 2. shut down mud pumps
  - 3. monitor well flow, remain at console
- 4. using hand signals verify all personnel are at stations, verify company man and toolpusher's position, initiate search if well is not flowing

### b. If tripping

- 1. after donning breathing apparatus put pipe in the slip-set position
- 2. stab safety valve, close safety valve
- 3. monitor well flow-remain at console
- 4. watch derrickman descend from derrick, verify all personnel locations, verify company man and toolpusher's position, initiate search if well is not flowing

### c. if well is flowing

- 1. after donning breathing apparatus, shut well in HARD
- 2. verify all personnel locations, verify company man and toolpusher's position, initiate search if necessary
  - 3. obtain necessary pressures for well control
- Proceed to safety briefing area with crew, plan well control operations with all personnel

### ii. Derrickman

- a. after donning breathing apparatus, go to pit side window on the floor whether drilling or tripping (descend derrick)
- b. maintain visual contact with driller and monitor flow
- c. if mud properties are needed, then proceed to the shaker with "buddy"
- d. monitor other hands on pit side of rig visually
- e. proceed to open manual well-head if necessary (with "buddy")

### iii. Motorman

- a. after donning breathing apparatus, go to the cascade system and ensure safe operation
- b. maintain visual contact with chain hand on doghouse side of floor

### iv. Chainhand

- a. after donning breathing apparatus, stab safety valve if tripping
- b. go to doghouse/pipe-rack and maintain visual contact with driller and motorman

### v. Floorman

- a. after donning breathing apparatus, stab safety valve if tripping
- b. aid driller while maintaining visual contact with driller, derrickman, and chainhand

### III. Auxiliary Personnel

- Mud engineer and Company man or geologist are to act as wardens.
   Wardens must account for all other auxiliary crew.
- ii. All auxiliary crew are to remain in safety briefing area unless evacuated by wardens.
- iii. Wardens organize search with notification from company. All searches are to be done with "buddy". Geologist warden should remain in safety briefing area.

### 2.4.4 Igniting the Well

### I. Decision

- i. The Company Foreman holds the responsibility for the decision to ignite a well. In the case where he is incapacitated or absent authority passes to the toolpusher and then the contract driller
- the decision to ignite the well is only to be made as a last resort safety measure when
  - a. there is threat human life and grave threat to public safety and equipment

- b. there is no alternative way of containing the well given the emergency faced.
- c. an attempt was made to contact area office (circumstances permitting)\*

# \*when human life is threatened no delay in decision making can be afforded

- I. Instructions for Igniting the Well
  - i. Two individuals are required for ignition
  - ii. Both individuals will wear SCBAs and have 200 foot retrieval cords tied to there waists
  - One individual will measure the atmosphere for explosive gasses with appropriate meter.
  - iv. The other individual will remain in the safety briefing area
  - v. Others in the briefing area are to remain aware of both individuals and aid as able. If either tethered individual is overcome by gas, he should be pulled to safety.
  - vi. The well should be lit with a 25 mm meterotype flare gun when well conditions allow. The safest method of igniting the well should always be used.
  - vii. Burning H<sub>2</sub>S will produce sulfur dioxide which is poisonous. The area, therefore is not safe once the well has ignited. Continue to observe all emergency procedures and follow orders from supervisors and the area office. Notice of incident should be reported to all appropriate authorities.

3.0	Appendices
3.1	Check List for Safety Equipment (designed for a maximum of 1)

3	Check List for Safety Equipment (designed for a maximum of 11 people)
	Safety Trailer housing cascade system at least ten 300 cu. ft. bottles of compressed air
	7 SCBA type breathing apparatus with 45 cu. ft. bottles
	5 breathing masks connected to the cascade system with 7 cu. ft. pony bottles
	2 extra 300 cu. ft. bottles able to refill SCBA bottles to be placed at the safety briefing areas
	2 Wind socks
	1 Flare gun and flares
	1 rescue pack (as described in section 2.3.1)
	Warning signs for access (flags for marking conditions)
	"Safety Briefing Area" signs, evacuation route flags
	H <sub>2</sub> S monitors (personnel and stationary)
	Alarm system (audio and visual—explosion proof)
	Gas Monitor

# 3.2 Emergency Phone Numbers

# Navajo Nation Oil & Gas Company Personnel to be Notified

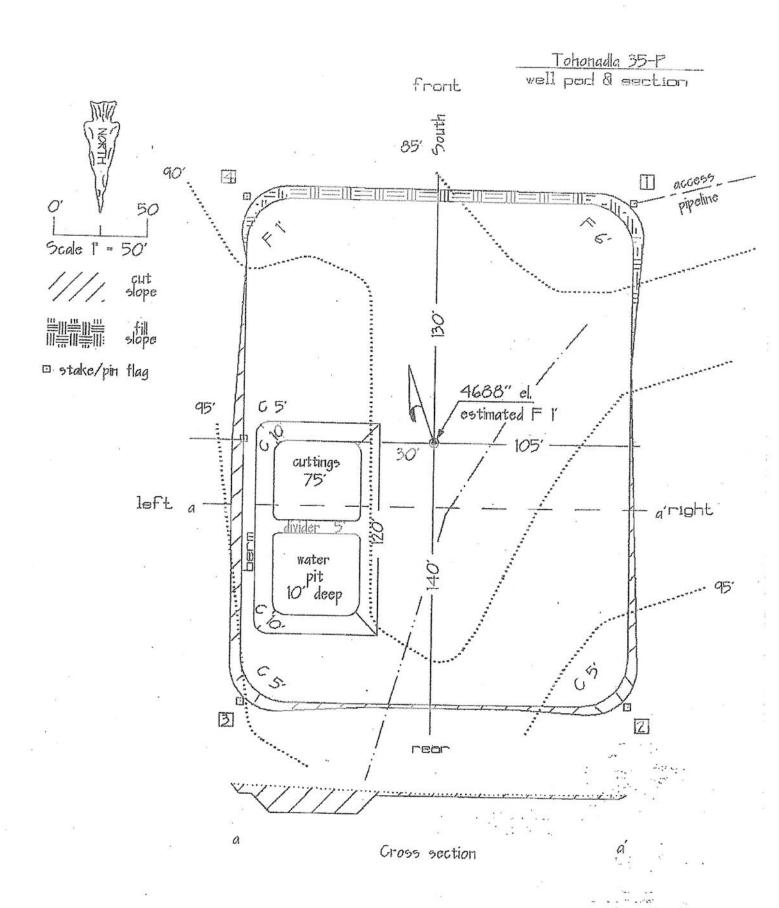
Wilson Groen		President	Office: (928) 871-4880 Cellular: (505) 879-6483 Direct (928) 871-8501
Rich Ferris Sam Butler Sallie Tippie	Cell: Cell: Cell:	303-618-2925 303-888-8920 303-884-8875	Home: 303-693-9207 Home: 303-329-9418 Home: 303-331-8695
Safety Company	Personn	<u>el</u>	
(Name)		(Position)	(Number work)
			(Number home)
(Name)		(Position)	(Number work)
			(Number home)
Local Agencies			F
San Juan County	Fire De	partment (Monticello)	911
9			(435) 587-3225
San Juan County	911		
	(435) 587-2237		
San Juan County En	nergenc	y Management (Monticello)	(435)-587-3225
Blanding Medical 804 North 40	(435) 678-2254		
San Juan Hospital 364 West 10		Monticello, UT	(435) 587-2116
Navajo Nation Po	lice (Mo	ontezuma Creek)	(505) 368-1350
	(M	onument Valley)	(505) 325-0022
Other Governmen	t Agenc	<u>ies</u>	53
National Response	e Center		800-424-8802
BLM	Montic	ello Field Office	(435) 587-1500
	Jeff Bro	own	(435) 587-1525

		Mobile	(435) 459-4886
		Field Manager	(435) 587-1505
	BLM	Farmington Field Office	(505) 599-8900
	ii.	Emergency line	(505) 599-8907
		Jim Lovato	(505) 599-6367
	BIA, Window Ro	ck Bertha Spencer	(928) 871-5938
	Utah Division of	Oil, Gas and Mining (SLC)	
		During Office Hours	(801) 538-5340
		After Hours	(801) 243-9466
	Utah State Emerg	gency Response Commission	(801) 536-4123
	Utah Highway Pa	atrol (Monticello)	(435) 587-2000
	Mexican Water C	hapter House	(928) 674-3641
	Red Mea Chapter	House	(928) 656-3655
	Utah Health Depa	artment (Price)	(435) 637-3671
	US EPA Region 8	(Denver)	(800) 227-8917
	Navajo Nation M	inerals Dept. (Window Rock, AZ)	(928) 871-6587
		9 19	
	Veterinarian	Angel Peak Vet. Hospital (Farmington)	(505) 632-3561
	Veterinarian	Farmington Veterinary Clinic	(505) 325-7462
	Veterinarian	Watkins, Clyde H. DVM	(435) 678-2414
	Helicopter	New Air Helicopters (Durango)	(970) 259-6247
	Helicopter	Heli NM (Albuquerque)	(866) 995 1058
20.7	Blanding Air Amb	pulance	(800) 742-8787
100	Classic Aviation		(800)-444-9220 ext 5
			A A

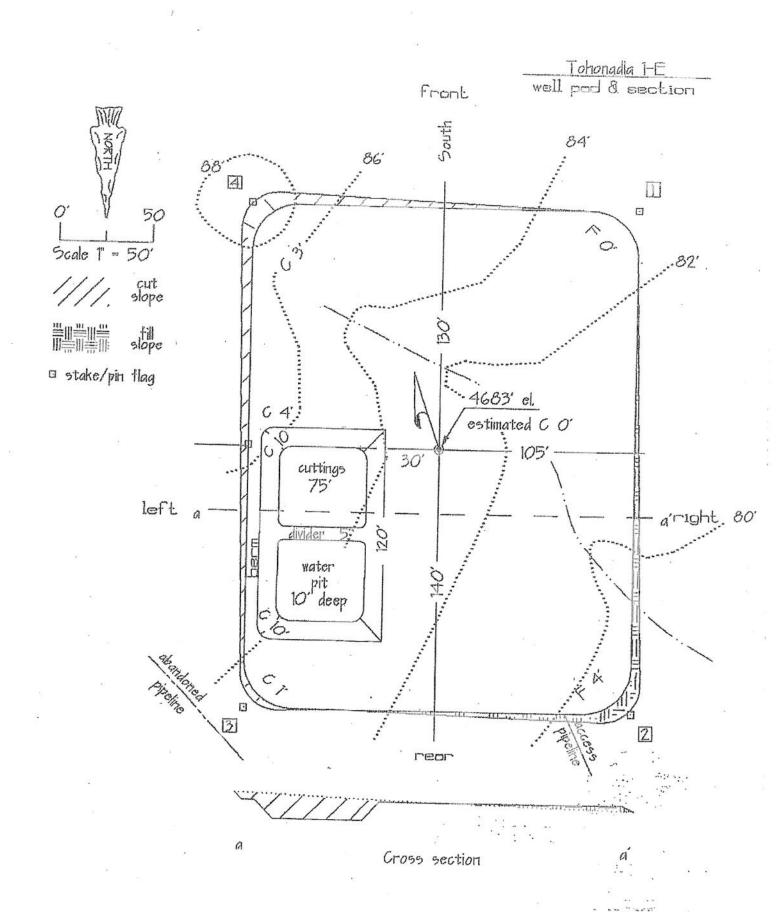
Emergency Phone Numbers Local Residents within 2 miles

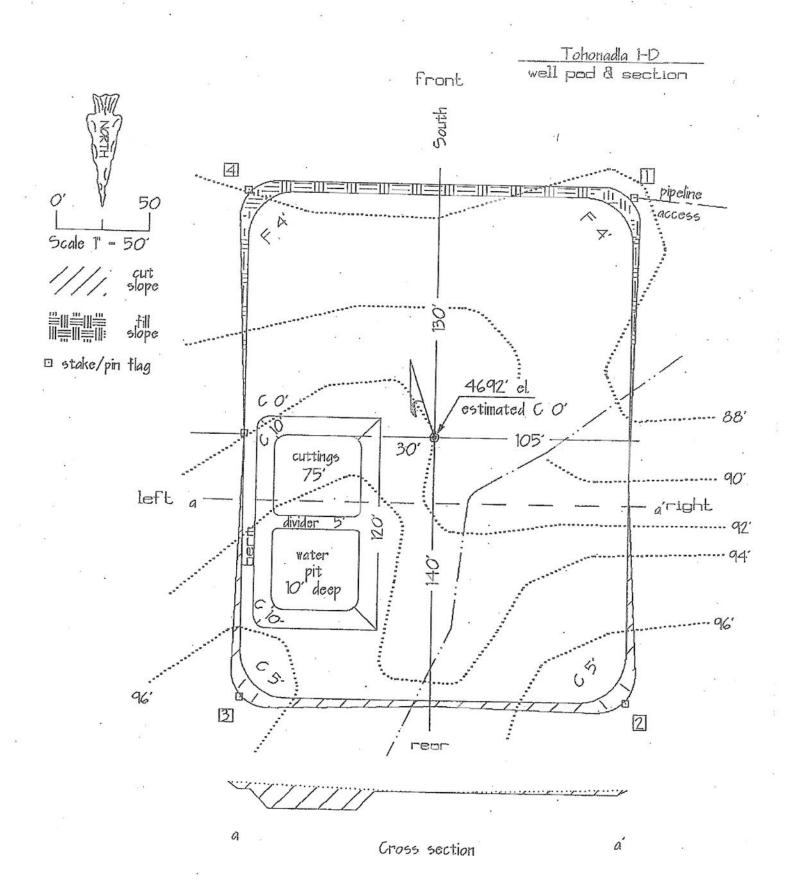
See maps to follow

'APIWellNo:43037500060000'



3.2 Tohonadla Site Plans





# Proposed Tohonadla Wells

Navajo Nation Oil & Gas Co. Inc.

Sec. 35 T. 41 S., R. 21 E. Sec. 01 T. 42 N., R. 21 E. San Juan County, Utah



# **Local Residences Contingency Map**

Prevailing Winds From the Southwest

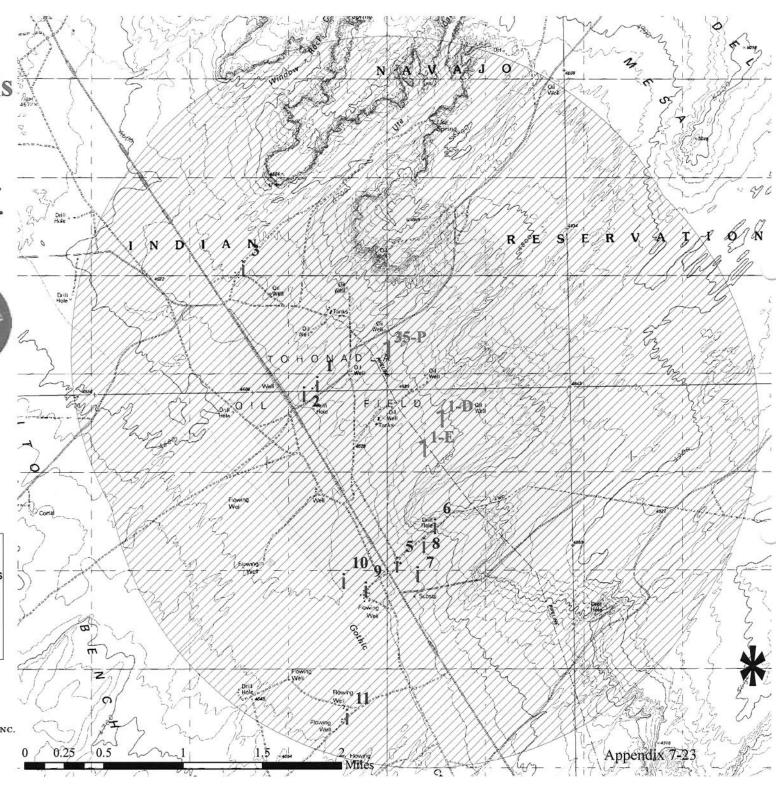
## Legend

- 1 Proposed Tohonadla wells
- i Residences
- 2 miles from wells
  - 1 mile from wells

15 January 2008



3.2 Local Residences Map



# Proposed Tohonadla Wells

Navajo Nation Oil & Gas Co. Inc.

Sec. 35 T. 41 S., R. 21 E. Sec. 01 T. 42 N., R. 21 E.

San Juan County, Utah



# Local Residences Contingency Map

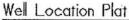
Prevailing Winds From the Southwest

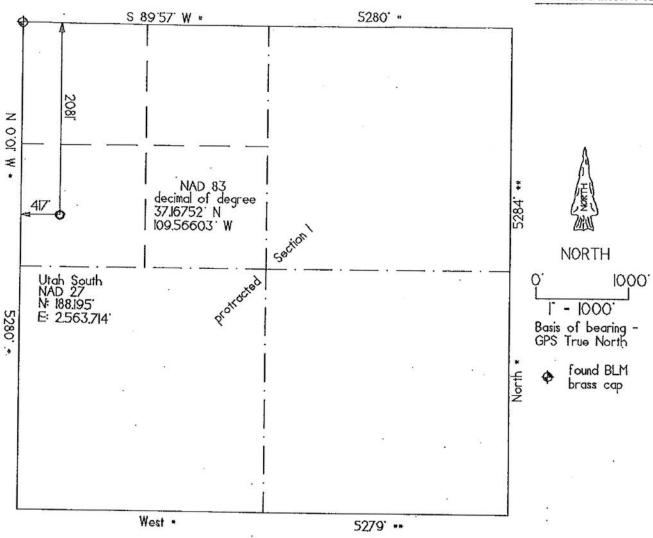
	Legend
*	Proposed Tohonadla wells
A	Residences
<b>//</b> 2	miles from wells
1	mile from wells

15 January 2008

PERMITS WEST, INC
PROVIDING PERMITS for LAND USERS
ay Vararo Long, Santa Fe, New Meseco 87505 (505) 466-8120
3.2 Local Residences Key

ID	Name	Phone	Comments
1	Julias Stash	NO	1 beige house, 1 white single wide trailer, 1 hogan
2	Betty Stash	NO	1 light blue house
3	n/a	n/a	2 double wide beige trailers, 1 green house, 1 faded blue house
4	n/a	n/a	1 beige house, 1 gray trailer, 1 small metal building
5	n/a	n/a	1 large tan building (a child development center), 1 white single wide
6	n/a	n/a	1 tan house, small brown trailer
7	n/a	n/a	1 large gray and brown trailer
8	n/a	n/a	1 very large brown house
9	Tom Tsosie Boy	NO	Very large compound- 1 tan trailer, 1 brown double wide, 1 yellowish house, 3 hogans, 1 small brown house, 1 log cabin shed
10	Jean and James Benally	435.459.9975	1 white double wide
11	n/a	n/a	1 yellow house, 1 blue house, 1 white double wide, 1 small white house, 2 hogans, I log cabin shed





# Well Location Description

NAVAJO NATION OIL & GAS CO. INC. TOHONADLA I-E 2081 FNL & 417 FWL Section I. T.42 S., R.21 E., SLM San Juan County, UT 4683 grd. el. (from GPS)



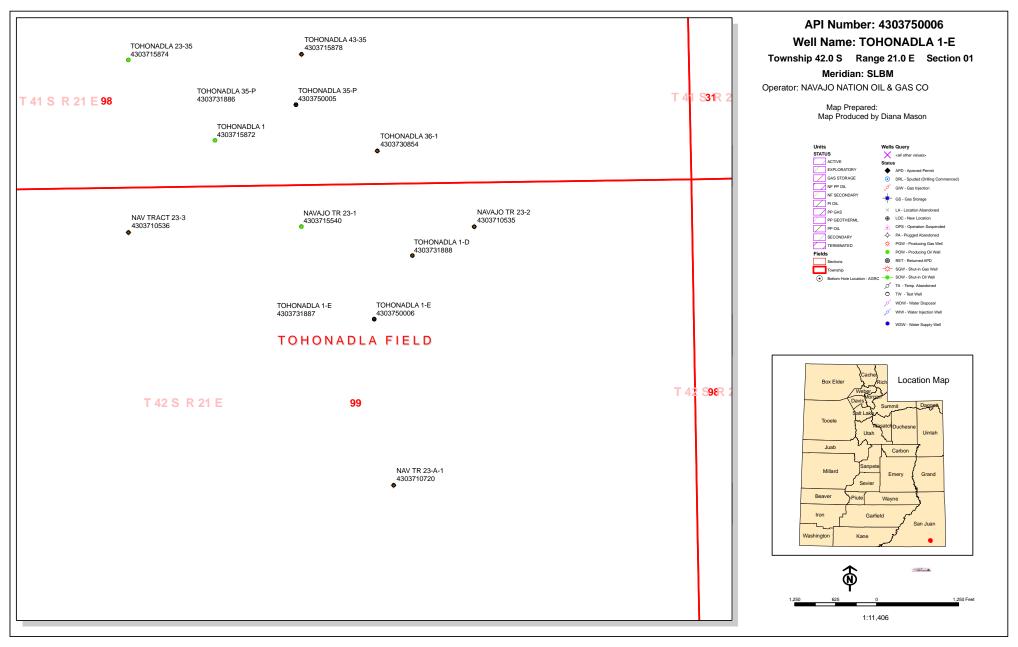
rev: 05/l8/'07

The above is true and correct to my knowledge and belief.

HUDDLESTON LAND SURVEYING - BOX KK - CORTEZ. CO - (970) 565 -3330

'APIWellNo:43037500060000'

'APIWellNo:43037500060000'



## WORKSHEET APPLICATION FOR PERMIT TO DRILL

**APD RECEIVED:** 8/26/2010 **API NO. ASSIGNED:** 43037500060000 WELL NAME: TOHONADLA 1-E **OPERATOR:** NAVAJO NATION OIL & GAS CO (N2550) **PHONE NUMBER: 303 534-8300 CONTACT:** Al Zier PROPOSED LOCATION: SWNW 01 420S 210E **Permit Tech Review:** SURFACE: 2081 FNL 0417 FWL **Engineering Review: BOTTOM:** 2081 FNL 0417 FWL **Geology Review: COUNTY: SAN JUAN LATITUDE:** 37.16745 **LONGITUDE:** -109.56528 **UTM SURF EASTINGS: 627382.00 NORTHINGS:** 4114208.00 FIELD NAME: TOHONADLA LEASE TYPE: 2 - Indian **LEASE NUMBER:** 1420603270 PROPOSED PRODUCING FORMATION(S): LEADVILLE SURFACE OWNER: 2 - Indian **COALBED METHANE: NO RECEIVED AND/OR REVIEWED: LOCATION AND SITING:** ✓ PLAT R649-2-3. Bond: INDIAN - BIA RLB0006712 Unit: **Potash** R649-3-2. General Oil Shale 190-5 Oil Shale 190-3 R649-3-3. Exception **Drilling Unit** Oil Shale 190-13 **Board Cause No:** R649-3-3 Water Permit: 09-135 **Effective Date: RDCC Review:** Siting: **Fee Surface Agreement** R649-3-11. Directional Drill **Intent to Commingle Commingling Approved** Comments: Presite Completed

Stipulations:

1 - Exception Location - bhill 4 - Federal Approval - dmason

23 - Spacing - dmason

API Well No: 43037500060000



# State of Utah

DEPARTMENT OF NATURAL RESOURCES

MICHAEL R. STYLER
Executive Director

Division of Oil, Gas and Mining

JOHN R. BAZA
Division Director

## Permit To Drill

\*\*\*\*\*

Well Name: TOHONADLA 1-E API Well Number: 43037500060000 Lease Number: 1420603270

Surface Owner: INDIAN Approval Date: 9/2/2010

#### **Issued to:**

NAVAJO NATION OIL & GAS CO, P.O. Box 4439, Window Rock, AZ 86515

#### **Authority:**

Pursuant to Utah Code Ann. §40-6-1 et seq., and Utah Administrative Code R649-3-1 et seq., the Utah Division of Oil, Gas and Mining issues conditions of approval, and permit to drill the listed well. This permit is issued in accordance with the requirements of R649-3-3. The expected producing formation or pool is the LEADVILLE Formation(s), completion into any other zones will require filing a Sundry Notice (Form 9). Completion and commingling of more than one pool will require approval in accordance with R649-3-22.

#### **Duration:**

This approval shall expire one year from the above date unless substantial and continuous operation is underway, or a request for extension is made prior to the expiration date

#### **Exception Location:**

Appropriate information has been submitted to DOGM and administrative approval of the requested exception location is hereby granted.

#### General:

Compliance with the requirements of Utah Admin. R. 649-1 et seq., the Oil and Gas Conservation General Rules, and the applicable terms and provisions of the approved Application for permit to drill.

## **Conditions of Approval:**

State approval of this well does not supercede the required federal approval, which must be obtained prior to drilling.

This proposed well is located in an area for which drilling units (well spacing patterns) have not been established through an order of the Board of Oil, Gas and Mining (the "Board"). In order to avoid the possibility of waste or injury to correlative rights, the operator is requested, once the well has been drilled, completed, and has produced, to analyze geological and engineering data generated therefrom, as well as any similar data from surrounding areas if available. As soon as is practicable after completion of its analysis, and if the analysis suggests an area larger than the quarter-quarter section upon which the well is located is being drained, the operator is requested to seek an appropriate order from the Board establishing drilling and spacing units in conformance with such analysis by filing a Request for Agency Action with the Board.

API Well No: 43037500060000

#### **Notification Requirements:**

The operator is required to notify the Division of Oil, Gas and Mining of the following actions during drilling of this well:

• Within 24 hours following the spudding of the well – contact Carol Daniels at 801-538-5284 (please leave a voicemail message if not available)

OR

submit an electronic sundry notice (pre-registration required) via the Utah Oil & Gas website at https://oilgas.ogm.utah.gov

#### **Reporting Requirements:**

All reports, forms and submittals as required by the Utah Oil and Gas Conservation General Rules will be promptly filed with the Division of Oil, Gas and Mining, including but not limited to:

- Entity Action Form (Form 6) due within 5 days of spudding the well
- Monthly Status Report (Form 9) due by 5th day of the following calendar month
- Requests to Change Plans (Form 9) due prior to implementation
- Written Notice of Emergency Changes (Form 9) due within 5 days
- Notice of Operations Suspension or Resumption (Form 9) due prior to implementation
- Report of Water Encountered (Form 7) due within 30 days after completion
- Well Completion Report (Form 8) due within 30 days after completion or plugging

**Approved By:** 

Acting Associate Director, Oil & Gas

	STATE OF UTAH		FORM 9
	DIVISION OF OIL, GAS, AND M		5.LEASE DESIGNATION AND SERIAL NUMBER: 1420603270
	RY NOTICES AND REPORT		6. IF INDIAN, ALLOTTEE OR TRIBE NAME: NAVAJO
	sals to drill new wells, significantly deepo ugged wells, or to drill horizontal laterals		7.UNIT or CA AGREEMENT NAME:
1. TYPE OF WELL Oil Well			8. WELL NAME and NUMBER: TOHONADLA 1-E
2. NAME OF OPERATOR: NAVAJO NATION OIL & GAS O	0		9. API NUMBER: 43037500060000
3. ADDRESS OF OPERATOR: P.O. Box 4439 , Window Rock		HONE NUMBER: 300 Ext	9. FIELD and POOL or WILDCAT: TOHONADLA
4. LOCATION OF WELL FOOTAGES AT SURFACE: 2081 FNL 0417 FWL			COUNTY: SAN JUAN
QTR/QTR, SECTION, TOWNSHI Qtr/Qtr: SWNW Section: 0:	IP, RANGE, MERIDIAN: 1 Township: 42.0S Range: 21.0E Meridia	n: S	STATE: UTAH
11. CHE	CK APPROPRIATE BOXES TO INDIC	ATE NATURE OF NOTICE, REPORT	, OR OTHER DATA
TYPE OF SUBMISSION		TYPE OF ACTION	
	☐ ACIDIZE	☐ ALTER CASING	☐ CASING REPAIR
NOTICE OF INTENT Approximate date work will start:	CHANGE TO PREVIOUS PLANS	CHANGE TUBING	CHANGE WELL NAME
SUBSEQUENT REPORT	CHANGE WELL STATUS	COMMINGLE PRODUCING FORMATIONS	☐ CONVERT WELL TYPE ☐ NEW CONSTRUCTION
Date of Work Completion:	☐ DEEPEN☐ OPERATOR CHANGE	☐ FRACTURE TREAT ☐ PLUG AND ABANDON	□ PLUG BACK
	PRODUCTION START OR RESUME	RECLAMATION OF WELL SITE	RECOMPLETE DIFFERENT FORMATION
SPUD REPORT Date of Spud:	REPERFORATE CURRENT FORMATION	SIDETRACK TO REPAIR WELL	TEMPORARY ABANDON
9/16/2010	☐ TUBING REPAIR	☐ VENT OR FLARE	☐ WATER DISPOSAL
DRILLING REPORT Report Date:	☐ WATER SHUTOFF	SI TA STATUS EXTENSION	APD EXTENSION
	☐ WILDCAT WELL DETERMINATION	OTHER	OTHER:
Spudded well as folk Started drilling with Casing Detail: Drilled	DMPLETED OPERATIONS. Clearly show all prowes: Drilled and set 80' of 3 Bearcat Drilling, LLC at 8:00 if to 1427' and ran and ceme ented with 620 sx. Cement content of fell back 15' from Ki	16" conductor on 8/15/201 O AM on 9/16/2010 Surface nted 8 5/8", 24#, J55 casir irculated to surface. Cem	0 Accepted by the Utah Division of
NAME (PLEASE PRINT) Al Zier	<b>PHONE NUMBE</b> 303 534-8300	R TITLE Operations/Production Manag	er
SIGNATURE N/A		<b>DATE</b> 10/7/2010	

	Well No. 1-E Total Depth 5,913 Bit Record		Footage 0 Mud Weight Visc (Sec) W.LCC's FC 32's pH Solids % Gels PV YP SS CA	County/State San Juan Co Hours 0 Record	Days Since Spud 15  Drlg As Collars Motor XO WOB RPM (Top/Bit) PUMP Liners	
Hrs.  Bit No. Size  Mfg. Type Serial No In Out Ftg Hrs. Rate(ft/hr) Jets TBG DAILY	Total Depth 5,913 Bit Record		Footage 0 Mud Weight Visc (Sec) W.LCC's FC 32's pH Solids % Gels PV YP SS	Hours 0	Days Since Spud 15  Drlg As Collars Motor XO WOB RPM (Top/Bit)  PUMP Liners	Cum Rot Hrs. 195.25 sembly
Hrs.  Bit No. Size  Mfg. Type Serial No In Out Ftg Hrs. Rate(ft/hr) Jets TBG DAILY	5,913 Bit Record		0 Mud Weight Visc (Sec) W.LCC's FC 32's pH Solids % Gels PV YP SS	0	Drlg As Collars Motor XO WOB RPM (Top/Bit) PUMP Liners	195.25 sembly
Bit No. Size Mfg. Type Serial No In Out Ftg Hrs. Rate(ft/hr) Jets TBG DAILY	Bit Record		Mud Weight Visc (Sec) W.LCC's FC 32's pH Solids % Gels PV YP SS		Drlg As  Collars  Motor  XO  WOB  RPM (Top/Bit)  PUMP  Liners	sembly
Bit No. Size Mfg. Type Serial No In Out Ftg Hrs. Rate(ft/hr) Jets TBG DAILY	CUMUI		Weight Visc (Sec) W.LCC's FC 32's pH Solids % Gels PV YP SS	Record	Collars Motor XO WOB RPM (Top/Bit) PUMP Liners	
Size Mfg. Type Serial No In Out Ftg Hrs. Rate(ft/hr) Jets TBG DAILY			Visc (Sec) W.LCC's FC 32's pH Solids % Gels PV YP SS		Collars Motor XO WOB RPM (Top/Bit) PUMP Liners	
Size Mfg. Type Serial No In Out Ftg Hrs. Rate(ft/hr) Jets TBG DAILY			Visc (Sec) W.LCC's FC 32's pH Solids % Gels PV YP SS		XO WOB RPM (Top/Bit) PUMP Liners	DATA
Type Serial No In Out Ftg Hrs. Rate(ft/hr) Jets TBG DAILY			W.LCC's FC 32's pH Solids % Gels PV YP SS		WOB RPM (Top/Bit) PUMP Liners	DATA
Type Serial No In Out Ftg Hrs. Rate(ft/hr) Jets TBG DAILY			FC 32's pH Solids % Gels PV YP SS		WOB RPM (Top/Bit) PUMP Liners	DATA
Serial No In Out Ftg Hrs. Rate(ft/hr) Jets TBG DAILY			Solids % Gels PV YP SS		PUMP	DATA
In Out Ftg Hrs. Rate(ft/hr) Jets TBG DAILY			Solids % Gels PV YP SS		PUMP	DATA
Out Ftg Hrs. Rate(ft/hr) Jets TBG DAILY			Gels PV YP SS		Liners	DATA
Ftg Hrs. Rate(ft/hr) Jets TBG DAILY			PV YP SS		Liners	DATA
Hrs. Rate(ft/hr) Jets TBG DAILY			YP SS		Liners	
Rate(ft/hr) Jets TBG DAILY			SS			
Jets TBG DAILY					Stroke	
TBG DAILY					SPM	
DAILY			CL		Press(on/off btm)	
		ATI\/E		DETAIL	DAILY	CUMULATIVE
\$11,850	\$33,099		Anchors	DETAIL	DAILI	\$5,775
\$11,650	\$189,600	1	Cement		\$49,576	\$84,088
	\$15,100		Welder		φ49,576	\$1,550
	\$13,100		Surf Rental	Equip	\$850	\$12,830
\$1,250	\$14,260		Fuel	Equip	\$000	\$24,47
\$1,250 \$750	\$14,260		Trucking			\$4,47 \$4,17
Ψ130	\$10,730		Logging			\$39,800
	\$7,391		Test BOPs			\$2,34
\$89,570	\$130,590		Wellhead (M	licc)	\$5,800	\$9,180
φοσ,στο	\$24,320	1		L COST	\$159,646	\$649,668
	<del>+</del> = 1,5=5	ļ	_		Ţ 155,5 15 <u> </u>	<del></del>
					Premium Class G, 5 I	bs gilsonite, .6%
·	•			ment.		
		•				
•			sx, yield 1.15 v	veight 15.8, P	remium Class G ceme	nt, .2% Halad R9,
• • •			.1	40/4/40		
liburton. Set slips,	wasn pits, N	D BOP's, r	elease rig at 3	am 10/1/10		
						_
r	place w/ 138 Bbls, c. Wait on Haliburto cond Stage, 10 Bbl nite, .125 lbs Poly-l o plug, and close D	nt 10 Bbls of H20, 20 Bbls of ch place w/ 138 Bbls, opened DV c. Wait on Haliburton to repair p cond Stage, 10 Bbls of H20, 20 nite, .125 lbs Poly-E-Flake, Tail o plug, and close DV Tool w/ 2, liburton. Set slips, wash pits, N	nt 10 Bbls of H20, 20 Bbls of chem wash, splace w/ 138 Bbls, opened DV Tool, circ oc. Wait on Haliburton to repair pump truck. Cond Stage, 10 Bbls of H20, 20 Bbls chemite, .125 lbs Poly-E-Flake, Tail in with 50 splug, and close DV Tool w/ 2,650 Psi. iiburton. Set slips, wash pits, ND BOP's, respectively.	nt 10 Bbls of H20, 20 Bbls of chem wash, 5 Bbls H20, Puplace w/ 138 Bbls, opened DV Tool, circ out 1 Bbls of cec. Wait on Haliburton to repair pump truck.  Cond Stage, 10 Bbls of H20, 20 Bbls chem wash, 5 Bbls in te, .125 lbs Poly-E-Flake, Tail in with 50 sx, yield 1.15 volume, and close DV Tool w/ 2,650 Psi.  Biburton. Set slips, wash pits, ND BOP's, release rig at 3	nt 10 Bbls of H20, 20 Bbls of chem wash, 5 Bbls H20, Pump 200 sx of place w/ 138 Bbls, opened DV Tool, circ out 1 Bbls of cement.  b. Wait on Haliburton to repair pump truck.  cond Stage, 10 Bbls of H20, 20 Bbls chem wash, 5 Bbls fresh H20, 95 hite, .125 lbs Poly-E-Flake, Tail in with 50 sx, yield 1.15 weight 15.8, Poplug, and close DV Tool w/ 2,650 Psi.  iiburton. Set slips, wash pits, ND BOP's, release rig at 3 am 10/1/10	nt 10 Bbls of H20, 20 Bbls of chem wash, 5 Bbls H20, Pump 200 sx of Premium Class G, 5 liplace w/ 138 Bbls, opened DV Tool, circ out 1 Bbls of cement.  2. Wait on Haliburton to repair pump truck.  3. Wait on Bbls of H20, 20 Bbls chem wash, 5 Bbls fresh H20, 956 sx cement, yield 1.8 nite, .125 lbs Poly-E-Flake, Tail in with 50 sx, yield 1.15 weight 15.8, Premium Class G cemero plug, and close DV Tool w/ 2,650 Psi.  3. Biburton. Set slips, wash pits, ND BOP's, release rig at 3 am 10/1/10

Tohonadia									cat #2
Current Operation Circ. RU Hallburton Circ. RU Hallburton    Footage   Footage   Hours   Days Since Spud	Lease			Well No.	Location		County/State	<b>!</b>	Report Date
Circ. RU Haliburton         5,913         0         0         14         195.25           Time Summany         Hrs.         Bit Record         Mud Record         Drig Assembly           Urig.         Bit No.         3         Weight         9.6         Collars         611.57           Wash and Ream         Size         77/8         Visc (Sec)         82         Motor         HBDP121.97           Circulating         2.75 Mig.         Reed         W.LCC's         6.4         XO         2.5           Rig Serv.         0.50 Type         r30ap         FC 32's         2         WOB           Trips         11.75 Serial No         k42573         pH         10         RPM (Top/Bit)           Surveys         In         4,900         Solids %         7           Cmtg.         Out         5,913         Gels         P           UBOP's         Hrs.         92.75         YP         20         Liners         6           Logging         4.00 Rate(ft/hr)         10.9         SS         0.2         Stroke         9           Waiting on BHA         Jets         3x18         CA         200         SPM         108           MiRU <th< td=""><td>Tohonadla</td><td></td><td></td><td>1-E</td><td>sec.38</td><td>5-41S21E</td><td>San Juan Co</td><td>. Utah</td><td>09/30/2010</td></th<>	Tohonadla			1-E	sec.38	5-41S21E	San Juan Co	. Utah	09/30/2010
Time Summary         Hrs.         Bit Record         Mud Record         Drig Assembly           Drig.         Bit No.         3         Weight         9.6         Collars         611.57           Wash and Ream         Size         7.7/8         Visc (Sec)         82         Motor         HBDP121.97           Circulating         2.75 Mig.         Reed         WLCC's         6.4         XO         2.5           Rig Serv.         0.50 Type         r30ap         FC 32's         2         WOB           Trips         11.75 Serial No         k42573         pH         10         RPM (Top/Bit)           Surveys         In         4,900         Solids %         7         Critical           Cmtg.         Out         5,913         Gels         PUMP (Top/Bit)         PUMP DATA           NU BOP's         Hrls.         92.75         YP         20         Liners         6           Logging         4.00 Rate(th/h)         10.9         SS         0.2         Stroke         9           Waiting on BHA         Jets         3x18         CA         200         SPM         108           MIRU         TBG         Broke/in         CL         800         Pres	Current Operation			Total Depth	<u> </u> 	Footage	Hours	Days Since Spud	Cum Rot Hrs.
Drig.   Bit No.   3   Weight   9.6   Collars   611.57	Circ. RU Ha	lliburton		5,913	3	0	0	14	195.25
Drig.         Bit No.         3         Weight         9.6         Collars         611.57           Wash and Ream         Size         77/8         Visc (Sec)         82         Motor         HBDP121.97           Circulating         2.75         Mfg.         Reed         W.LCC5         6.4         XO         2.5           Rig Serv.         0.50 Type         r30ap         FC 32's         2         WOB         VWB           Trips         11.75         Serial No         k42573         pH         10         RPM (Top/Bit)           Surveys         In         4.900         Solids %         7         CCMg.           Cmg.         Out         5.913         Gels         PUMP DATA           NU BOP's         Hrs.         92.75         YP         20         Liners         6           Logging         4.00         Rate(ft/hr)         10.9         SS         0.2         Stroke         9           Waiting on BHA         Jets         3x18         CA         200         SPM         108           MIRU         TBG         Broker/in         CL         800         Press(on/off bim)         1,400           Loc & Roads         \$11,850	Time Summary	Hrs.		Bit Record		Mud	Record	Drlg As	ssembly
Wash and Ream         Size         7 7/8         Visc (Sec)         82         Motor         HBDP121.97           Circulating         2.75         Mfg.         Reed         W.LCC's         6.4         XO         2.5           Rig Serv.         0.50         Type         r30ap         FC 32's         2         WOB           Trips         11.75         Serial No         k42573         pH         10         RPM (Top/Bit)           Surveys         In         4,900         Solids %         7         7           Cmg.         Out         5,913         Gels         PUMP DATA           Run Csg.         5.00         Flg         1,013         PV         19         PUMP DATA           NU BOP's         Hrs.         92.75         YP         20         Liners         6           Logging         4.00         Rate(ft/thr)         10.9         SS         0.2         Stroke         9           Wating on BHA         Jets         3x18         CA         200         SPM         108           MIRU         TBG         Broke/in         CA         200         SPM         10           Cos TDETAIL         DAILY         CUMULATIVE	•		Bit No.						•
Circulating         2.75 Mig.         Meg.         Reed         W.LCC's         6.4         XO         2.5           Rig Serv.         0.50 Type         r30ap         FC 32's         2 WOB         WOB           Trips         11.75 Serial No         k42573         p.H         10 RPM (Top/Bit)           Surveys         In         4,900         Solids %         7           Cmtg.         Out         5,913         Gels         PV           Run Csg.         5,00 Ftg         1,013         PV         19         PUMP DATA           NU BOP's         Hrs.         92.75         YP         20         Liners         6           Logging         4.00 Rate(ft/hr)         10.9         SS         0.2         Stroke         9           Waiting on BHA         Jets         3x18         CA         200         SPM         108           MIRU         TBG         Broke/in         CL         800         Press(on/off btm)         1,400           COST DETAIL         DAILY         CUMULATIVE         COST DETAIL         DAILY         CUMULATIVE           Loc & Roads         \$11,850         \$17,750         Cement         \$34,611           Bits         \$15,1	•		Size	7 7/8			82	Motor	HBDP121.97
Rig Serv.   0.50   Type   r30ap   FC 32's   2   WOB	Circulating	2.75	Mfg.	Reed			6.4	XO	2.5
Trips			-	r30ap					
Surveys				•				1	
Cmtg.         Out         5,913         Gels           Run Csg.         5.00 Ftg         1,013         PV         19         PUMP DATA           NU BOP's         Hrs.         92.75         YP         20         Liners         6           Logging         4.00 Rate(ft/hr)         10.9         SS         0.2         Stroke         9           Waiting on BHA         Jets         3x18         CA         200         SPM         108           MIRU         TBG         Broke/in         CL         800         Press(on/off btm)         1,400           COST DETAIL         DAILY         CUMULATIVE         COST DETAIL         DAILY         CUMULATIVE           Loc & Roads         \$33,099         Anchors         \$5,77*           Rig Cost         \$11,850         \$177,750         Cement         \$34,51*           Bits         \$15,100         Welder         \$1,55*           Mud         \$2,406         \$21,343         Surf Rental Equip         \$850         \$11,98*           Water         \$340         \$13,000         Trucking         \$39,803         \$39,803           Rig Move         \$7,391         Test BOPs         \$2,34*           Casing & Pipe <td>•</td> <td>11.70</td> <td></td> <td></td> <td></td> <td>•</td> <td></td> <td>Tti Wi (Top/Dit)</td> <td></td>	•	11.70				•		Tti Wi (Top/Dit)	
Run Csg.   5.00   Ftg   1,013   PV   19   PUMP DATA			ļ				'		1
NU BOP's	•	5.00				_	10	PLIME	PIDATA
Logging		3.00	<del>                                     </del>						
Waiting on BHA         Jets         3x18         CA         200         SPM         108           MIRU         TBG         Broke/in         CL         800         Press(on/off btm)         1,400           COST DETAIL         DAILY         CUMULATIVE         COST DETAIL         DAILY         CUMULATIVE           Loc & Roads         \$33,099         Anchors         DAILY         CUMULATIVE           Rig Cost         \$11,850         \$177,750         Cement         \$34,512           Bits         \$15,100         Welder         \$1,550           Mud         \$2,406         \$21,343         Surf Rental Equip         \$850         \$11,980           Water         \$340         \$13,010         Fuel         \$24,47           Supervision         \$750         \$18,000         Trucking         \$39,803         \$39,803           Geological/Mud Logger         \$1,100         \$11,000         Logging         \$39,803         \$39,803           Rig Move         \$7,391         Test BOPs         \$2,344           Casing & Pipe         \$5,820         \$41,020         Wellhead (Misc)         \$3,380		4.00	ļ		1				
MIRU         TBG         Broke/in         CL         800         Press(on/off btm)         1,400           COST DETAIL         DAILY         CUMULATIVE         COST DETAIL         DAILY         CUMULATIVE           Loc & Roads         \$33,099         Anchors         \$5,779           Rig Cost         \$11,850         \$177,750         Cement         \$34,511           Bits         \$15,100         Welder         \$1,55           Mud         \$2,406         \$21,343         Surf Rental Equip         \$850         \$11,980           Water         \$340         \$13,010         Fuel         \$24,47         \$24,47           Supervision         \$750         \$18,000         Trucking         \$39,803         \$39,803           Rig Move         \$7,391         Test BOPs         \$2,345           Casing & Pipe         \$5,820         \$41,020         Wellhead (Misc)         \$33,80           Motor         \$24,320         TOTAL COST         \$62,919         \$490,022           DETAILS:         \$600AM-7:00AM (4)         RU Schlumberger, try to log could not get past 1,973'. RD Schlumberger. Did not run Open hole logs.           11:30AM-4:00PM (4.5)         GiH.         4:00PM-5:15PM (1.25)         Wash 30' to bottom and circ.	* * *	4.00	` ′				-		
COST DETAIL  DAILY  CUMULATIVE  COST DETAIL  DAILY  CUMULATIVE  COST DETAIL  DAILY  CUMULATIVE  Loc & Roads  \$33,099   Anchors   \$5,77!  Cement   \$34,51!  Bits   \$11,850   \$177,750   Cement   \$34,51!  Bits   \$15,100   Welder   \$11,55!  Mud   \$2,406   \$21,343   Surf Rental Equip   \$850   \$11,980    Water   \$340   \$13,010   Fuel   \$24,47!  Supervision   \$750   \$18,000   Trucking   \$4,17!  Geological/Mud Logger   \$1,100   \$11,000   Logging   \$39,803   \$39,803    Rig Move   \$7,391   Test BOPs   \$2,34!  Casing & Pipe   \$5,820   \$41,020   Wellhead (Misc)   \$3,380    Motor   \$24,320   TOTAL COST   \$62,919   \$490,022    DETAILS:  6:00AM-7:00AM (1) POOH.  7:00AM-11:00AM (4) RU Schlumberger, try to log could not get past 1,973'. RD Schlumberger. Did not run Open hole logs.  11:30AM-4:00PM (4.5) GIH.  4:00PM-5:15PM (1.25) Wash 30' to bottom and circ.  5:15PM-11:30PM (6.25) LDP.  11:30PM-4:30AM (5) RU and run csg., 114 jts, 5 1/2 j55, 17 lbs, LTC, 15 centralizers, DV tool @ 4,882'.							+		
Loc & Roads \$33,099   Anchors \$5,77 Rig Cost \$11,850   \$177,750   Cement \$34,512 Bits   \$15,100   Welder   \$1,550 Mud   \$2,406   \$21,343   Surf Rental Equip   \$850   \$11,980 Water   \$340   \$13,010   Fuel   \$24,47 Supervision   \$750   \$18,000   Trucking   \$39,803   \$39,803 Rig Move   \$1,100   \$11,000   Logging   \$39,803   \$39,803 Rig Move   \$7,391   Test BOPs   \$2,343 Casing & Pipe   \$5,820   \$41,020   Wellhead (Misc)   \$3,380 Motor   \$24,320   TOTAL COST   \$62,919   \$490,023  DETAILS:  6:00AM-7:00AM (1) POOH.  7:00AM-11:30AM (4) RU Schlumberger, try to log could not get past 1,973'. RD Schlumberger. Did not run Open hole logs.  11:30AM-4:00PM (4.5) GIH.  4:00PM-5:15PM (1.25) Wash 30' to bottom and circ.  5:15PM-11:30PM (6.25) LDP.  11:30PM-4:30AM (5) RU and run csg., 114 jts, 5 1/2 j55, 17 lbs, LTC, 15 centralizers, DV tool @ 4,882'.					   A T   / F			i i	•
Rig Cost         \$11,850         \$177,750         Cement         \$34,51           Bits         \$15,100         Welder         \$1,56           Mud         \$2,406         \$21,343         Surf Rental Equip         \$850         \$11,980           Water         \$340         \$13,010         Fuel         \$24,47           Supervision         \$750         \$18,000         Trucking         \$4,173           Geological/Mud Logger         \$1,100         \$11,000         Logging         \$39,803         \$39,803           Rig Move         \$7,391         Test BOPs         \$2,343         \$3,380           Casing & Pipe         \$5,820         \$41,020         Wellhead (Misc)         \$3,380           Motor         \$24,320         TOTAL COST         \$62,919         \$490,023           DETAILS:         \$600AM-7:00AM (1) POOH.         \$7.00AM-11:00AM (4) RU Schlumberger, try to log could not get past 1,973'. RD Schlumberger. Did not run Open hole logs.         \$11:00AM-11:30AM (.5) Rig serv.           **11:30AM-4:30PM (4.25) Wash 30' to bottom and circ.         \$5:15PM-11:30PM (6.25) LDP.         \$14 jts, 5 1/2 j55, 17 lbs, LTC, 15 centralizers, DV tool @ 4,882'.		D	AILY		1		I DETAIL	DAILY	
Bits \$15,100 Welder \$1,550 Mud \$1,550 Mud \$2,406 \$21,343 Surf Rental Equip \$850 \$11,980 Mater \$340 \$13,010 Fuel \$24,470 Mater \$340 \$13,010 Fuel \$24,470 Mater \$340 \$13,010 Fuel \$24,470 Mater \$340 \$11,000 Trucking \$34,170 Mater \$340 \$11,000 Logging \$39,803 \$39,803 Mater					1				\$5,775
Mud         \$2,406         \$21,343         Surf Rental Equip         \$850         \$11,980           Water         \$340         \$13,010         Fuel         \$24,47*           Supervision         \$750         \$18,000         Trucking         \$4,17*           Geological/Mud Logger         \$1,100         \$11,000         Logging         \$39,803         \$39,803           Rig Move         \$7,391         Test BOPs         \$2,34*           Casing & Pipe         \$5,820         \$41,020         Wellhead (Misc)         \$3,38*           Motor         \$24,320         TOTAL COST         \$62,919         \$490,02*           DETAILS:           6:00AM-7:00AM (1)         POOH.         TOTAL COST         \$62,919         \$490,02*           DETAILS:           6:00AM-11:30AM (4)         RU Schlumberger, try to log could not get past 1,973*. RD Schlumberger. Did not run Open hole logs.           11:00AM-11:30AM (5)         Rig serv.           11:30AM-4:00PM (4.5)         GIH.           4:00PM-5:15PM (1.25)         Wash 30' to bottom and circ.           5:15PM-11:30PM (6.25)         LDP.           11:30PM-4:30AM (5)         RU and run csg., 114 jts, 5 1/2 j55, 17 lbs, LTC, 15 centralizers, DV tool @ 4,882'.	Ţ		\$11,850		-	+			
Water         \$340         \$13,010         Fuel         \$24,47°           Supervision         \$750         \$18,000         Trucking         \$4,17°           Geological/Mud Logger         \$1,100         \$11,000         Logging         \$39,803         \$39,803           Rig Move         \$7,391         Test BOPs         \$2,34°           Casing & Pipe         \$5,820         \$41,020         Wellhead (Misc)         \$3,38°           Motor         \$24,320         TOTAL COST         \$62,919         \$490,02°           DETAILS:         6:00AM-7:00AM (1) POOH.           7:00AM-11:00AM (4)         RU Schlumberger, try to log could not get past 1,973°. RD Schlumberger. Did not run Open hole logs.           11:00AM-41:30AM (.5)         Rig serv.           11:30AM-4:00PM (4.5)         GIH.           4:00PM-5:15PM (1.25)         Wash 30° to bottom and circ.           5:15PM-11:30PM (6.25)         LDP.           11:30PM-4:30AM (5)         RU and run csg., 114 jts, 5 1/2 j55, 17 lbs, LTC, 15 centralizers, DV tool @ 4,882°.					-				\$1,550
Supervision         \$750         \$18,000         Trucking         \$4,175           Geological/Mud Logger         \$1,100         \$11,000         Logging         \$39,803         \$39,803           Rig Move         \$7,391         Test BOPs         \$2,345           Casing & Pipe         \$5,820         \$41,020         Wellhead (Misc)         \$3,380           Motor         \$24,320         TOTAL COST         \$62,919         \$490,025           DETAILS:         6:00AM-7:00AM (1) POOH.         7:00AM-11:00AM (4) RU Schlumberger, try to log could not get past 1,973'. RD Schlumberger. Did not run Open hole logs.         11:00AM-11:30AM (.5) Rig serv.           11:30AM-4:00PM (4.5) GIH.         4:00PM-5:15PM (1.25) Wash 30' to bottom and circ.         5:15PM-11:30PM (6.25) LDP.           11:30PM-4:30AM (5) RU and run csg., 114 jts, 5 1/2 j55, 17 lbs, LTC, 15 centralizers, DV tool @ 4,882'.	Mud				-		Equip	\$850	
Geological/Mud Logger         \$1,100         \$11,000         Logging         \$39,803         \$39,803           Rig Move         \$7,391         Test BOPs         \$2,343           Casing & Pipe         \$5,820         \$41,020         Wellhead (Misc)         \$3,380           Motor         \$24,320         TOTAL COST         \$62,919         \$490,022           DETAILS:         6:00AM-7:00AM (1) POOH.         7:00AM-11:00AM (4) RU Schlumberger, try to log could not get past 1,973'. RD Schlumberger. Did not run Open hole logs.         11:30AM-4:00PM (4.5) Rig serv.           11:30AM-4:00PM (4.5) GIH.         4:00PM-5:15PM (1.25) Wash 30' to bottom and circ.         5:15PM-11:30PM (6.25) LDP.           11:30PM-4:30AM (5) RU and run csg., 114 jts, 5 1/2 j55, 17 lbs, LTC, 15 centralizers, DV tool @ 4,882'.					-	+			\$24,471
Rig Move \$7,391 Test BOPs \$2,34: Casing & Pipe \$5,820 \$41,020 Wellhead (Misc) \$3,380 Motor \$24,320 TOTAL COST \$62,919 \$490,02:  DETAILS: 6:00AM-7:00AM (1) POOH. 7:00AM-11:00AM (4) RU Schlumberger, try to log could not get past 1,973'. RD Schlumberger. Did not run Open hole logs. 11:00AM-11:30AM (5) Rig serv. 11:30AM-4:00PM (4.5) GIH. 4:00PM-5:15PM (1.25) Wash 30' to bottom and circ. 5:15PM-11:30PM (6.25) LDP. 11:30PM-4:30AM (5) RU and run csg., 114 jts, 5 1/2 j55, 17 lbs, LTC, 15 centralizers, DV tool @ 4,882'.	Supervision		\$750	\$18,000	)	Trucking			\$4,175
Casing & Pipe \$5,820 \$41,020 Wellhead (Misc) \$3,380 Motor \$24,320 TOTAL COST \$62,919 \$490,022 DETAILS:  6:00AM-7:00AM (1) POOH.  7:00AM-11:00AM (4) RU Schlumberger, try to log could not get past 1,973'. RD Schlumberger. Did not run Open hole logs.  11:00AM-11:30AM (.5) Rig serv.  11:30AM-4:00PM (4.5) GIH.  4:00PM-5:15PM (1.25) Wash 30' to bottom and circ.  5:15PM-11:30PM (6.25) LDP.  11:30PM-4:30AM (5) RU and run csg., 114 jts, 5 1/2 j55, 17 lbs, LTC, 15 centralizers, DV tool @ 4,882'.			\$1,100					\$39,803	
Motor \$24,320 TOTAL COST \$62,919 \$490,022  DETAILS:  6:00AM-7:00AM (1) POOH.  7:00AM-11:00AM (4) RU Schlumberger, try to log could not get past 1,973'. RD Schlumberger. Did not run Open hole logs.  11:00AM-11:30AM (.5) Rig serv.  11:30AM-4:00PM (4.5) GIH.  4:00PM-5:15PM (1.25) Wash 30' to bottom and circ.  5:15PM-11:30PM (6.25) LDP.  11:30PM-4:30AM (5) RU and run csg., 114 jts, 5 1/2 j55, 17 lbs, LTC, 15 centralizers, DV tool @ 4,882'.	~				-				\$2,343
DETAILS: 6:00AM-7:00AM (1) POOH. 7:00AM-11:00AM (4) RU Schlumberger, try to log could not get past 1,973'. RD Schlumberger. Did not run Open hole logs. 11:00AM-11:30AM (.5) Rig serv. 11:30AM-4:00PM (4.5) GIH. 4:00PM-5:15PM (1.25) Wash 30' to bottom and circ. 5:15PM-11:30PM (6.25) LDP. 11:30PM-4:30AM (5) RU and run csg., 114 jts, 5 1/2 j55, 17 lbs, LTC, 15 centralizers, DV tool @ 4,882'.	Casing & Pipe		\$5,820		-				\$3,380
6:00AM-7:00AM (1) POOH. 7:00AM-11:00AM (4) RU Schlumberger, try to log could not get past 1,973'. RD Schlumberger. Did not run Open hole logs. 11:00AM-11:30AM (.5) Rig serv. 11:30AM-4:00PM (4.5) GIH. 4:00PM-5:15PM (1.25) Wash 30' to bottom and circ. 5:15PM-11:30PM (6.25) LDP. 11:30PM-4:30AM (5) RU and run csg., 114 jts, 5 1/2 j55, 17 lbs, LTC, 15 centralizers, DV tool @ 4,882'.	Motor			\$24,320	)	TOTA	AL COST	\$62,919	\$490,022
7:00AM-11:00AM (4) RU Schlumberger, try to log could not get past 1,973'. RD Schlumberger. Did not run Open hole logs. 11:00AM-11:30AM (.5) Rig serv. 11:30AM-4:00PM (4.5) GIH. 4:00PM-5:15PM (1.25) Wash 30' to bottom and circ. 5:15PM-11:30PM (6.25) LDP. 11:30PM-4:30AM (5) RU and run csg., 114 jts, 5 1/2 j55, 17 lbs, LTC, 15 centralizers, DV tool @ 4,882'.	DETAILS:								
7:00AM-11:00AM (4) RU Schlumberger, try to log could not get past 1,973'. RD Schlumberger. Did not run Open hole logs. 11:00AM-11:30AM (.5) Rig serv. 11:30AM-4:00PM (4.5) GIH. 4:00PM-5:15PM (1.25) Wash 30' to bottom and circ. 5:15PM-11:30PM (6.25) LDP. 11:30PM-4:30AM (5) RU and run csg., 114 jts, 5 1/2 j55, 17 lbs, LTC, 15 centralizers, DV tool @ 4,882'.	6:00AM-7:00AM (1) POC	)H.		•					
11:00AM-11:30AM (.5) Rig serv. 11:30AM-4:00PM (4.5) GIH. 4:00PM-5:15PM (1.25) Wash 30' to bottom and circ. 5:15PM-11:30PM (6.25) LDP. 11:30PM-4:30AM (5) RU and run csg., 114 jts, 5 1/2 j55, 17 lbs, LTC, 15 centralizers, DV tool @ 4,882'.			erger, try to	log could not	t get past 1,	973'. RD Schl	lumberger. Did	not run Open hole k	ogs.
4:00PM-5:15PM (1.25) Wash 30' to bottom and circ. 5:15PM-11:30PM (6.25) LDP. 11:30PM-4:30AM (5) RU and run csg., 114 jts, 5 1/2 j55, 17 lbs, LTC, 15 centralizers, DV tool @ 4,882'.								·	
5:15PM-11:30PM (6.25) LDP. 11:30PM-4:30AM (5) RU and run csg., 114 jts, 5 1/2 j55, 17 lbs, LTC, 15 centralizers, DV tool @ 4,882'.	, ,								
11:30PM-4:30AM (5) RU and run csg., 114 jts, 5 1/2 j55, 17 lbs, LTC, 15 centralizers, DV tool @ 4,882'.	4:00PM-5:15PM (1.25) V	/ash 30' t	o bottom an	d circ.					
	5:15PM-11:30PM (6.25) L	DP.							
	11:30PM-4:30AM (5) RU	and run c	sg., 114 jts,	5 1/2 j55, 17	lbs, LTC, 1	5 centralizers	, DV tool @ 4,8	382'.	
4.30ANFO.00ANFO.70ANFO.70ASFEZO TO DOLLOTT. CITC. NO HAIDUITOTI.							,,		
	Well Site Representative	Randy S	helton						
Well Site Representative: Randy Shelton		. tariay O							
Well Site Representative: Randy Shelton									

							Bear	cat #2
Lease			Well No.	Location		County/State		Report Date
Tohonadla			1-E	sec.3	5-41S21E	San Juan Co.	Utah	09/29/2010
Current Operation			Total Depth	]	Footage	Hours	Days Since Spud	Cum Rot Hrs.
POOL	Н		5,913	3	0	0	13	195.25
Time Summary	Hrs.		Bit Record		Mud	Record	Drlg As	ssembly
Drlg.		Bit No.	3		Weight	9.6	Collars	611.57
Wash and Ream	6.75	Size	7 7/8		Visc (Sec)	82	Motor	HBDP121.97
Circulating	1.00	Mfg.	Reed		W.LCC's	6.4	XO	2.5
Rig Serv.		Туре	r30ap		FC 32's	2	WOB	
Trips	9.25	Serial No	k42573		рН	10	RPM (Top/Bit)	
Surveys		In	4,900		Solids %	7	, , , , , , , , , , , , , , , , , , ,	
Cmtg.		Out	5,913		Gels			
Run Csg.		Ftg	1,013		PV	19	PUMP	DATA
NU BOP's		Hrs.	92.75		YP	12	Liners	6
Logging	3.00	Rate(ft/hr)	10.9		SS	0.2	Stroke	9
Waitng on BHA		Jets	3x18		CA	200	SPM	108
MIRU		TBG	Broke/in		CL	800	Press(on/off btm)	1,400
COST DETAIL	D	AILY	CUMUL	LATIVE	COST	DETAIL	DAILY	CUMULATIVE
Loc & Roads			\$33,099		Anchors			\$5,775
Rig Cost		\$11,850			Cement			\$34,512
Bits			\$15,100		Welder			\$1,550
Mud		\$1,017			Surf Rental	Equip	\$850	•
Water		\$320	\$12,670	)	Fuel		\$7,267	\$24,471
Supervision		\$750	\$17,250	)	Trucking		\$315	
Geological/Mud Logger		\$1,100	\$9,900	)	Logging			
Rig Move			\$7,391		Test BOPs			\$2,343
Casing & Pipe			\$35,200	)	Wellhead (M	fisc)	\$1,200	\$3,380
Motor			\$24,320	)	TOTA	AL COST	\$24,669	\$427,103
DETAILS:								
6:00AM-9:30AM (3.5) PC	OH.							
9:30AM-12:30PM (3) RU	Schlumb	erger, could	not get past	1,970'.				
12:30PM-4:30PM (4) WC								
4:30PM-6:45PM (2.25) P								
6:45PM-1:30AM (6.75) G	IH, reem	from 1,947'	to 2,110, 2,20	03' to 3,021	', and 5,880' t	o 5,913'.		
1:30AM-2:30AM (1) Circ.								
2:30AM-6:00AM (3.25) Po	OOH. Sur	vey @ TD 3	.75 degr.					
Mall Oita D	D- 1 C	l 14 - :						
Well Site Representative:	Randy SI	nelton						

							Bear	cat #2
Lease	_	_	Well No.	Location		County/State		Report Date
Tohonadla			1-E	sec.35	5-41S21E	San Juan Co.	Utah	09/28/2010
Current Operation			Total Depth	1	Footage	Hours	Days Since Spud	Cum Rot Hrs.
POOI	Н		5,913	<b>;</b>	0	0	12	195.25
Time Summary	Hrs.		Bit Record		Mud	Record	Drlg As	ssembly
Drlg.		Bit No.	3		Weight	9.1	Collars	611.57
Wash and Ream	2.00	Size	7 7/8		Visc (Sec)	42	Motor	HBDP121.97
Circulating	4.25	Mfg.	Reed		W.LCC's	6.4	XO	2.5
Rig Serv.	1.00	Туре	r30ap		FC 32's	2	WOB	
Trips	11.25	Serial No	k42573		рН	10	RPM (Top/Bit)	
Surveys		In	4,900		Solids %	5	, , , , , , , , , , , , , , , , , , ,	
Cmtg.		Out	5,913		Gels	2/8		
Run Csg.		Ftg	1,013		PV	14	PUMF	DATA
NU BOP's		Hrs.	92.75		YP	10	Liners	6
Logging	5.50	Rate(ft/hr)	10.9		SS	0.2	Stroke	9
Rig Rprs		Jets	3x18		CA	200	SPM	108
MIRU		TBG	Broke/in		CL	800	Press(on/off btm)	1,400
COST DETAIL	D	AILY	CUMUI	_ATIVE	COST	DETAIL	DAILY	CUMULATIVE
Loc & Roads			\$33,099		Anchors			\$5,775
Rig Cost		\$11,850	\$154,050		Cement			\$34,512
Bits		+ /	\$15,100	-	Welder			\$1,550
Mud		\$868	\$17,920		Surf Rental	Equip	\$850	
Water		\$440	\$12,350		Fuel	1-1	,	\$17,204
Supervision		\$750	\$16,500	-	Trucking			\$3,860
Geological/Mud Logger		\$1,100	\$8,800	1	Logging			+ = / = = =
Rig Move		+1,100	\$7,391	-	Test BOPs			\$2,343
Casing & Pipe			\$35,200		Wellhead (N	fisc)		\$2,180
Motor			\$24,320	-		L COST	\$15,858	
DETAILS:								
6:00AM-7:45AM (1.75) P	OOH 25	stds.						
7:45AM-9:45AM (2) GIH.								
9:45AM-10:45AM (1) Wa		bottom.						
10:45AM-12:45PM (2) Ci								
12:45PM-1:45PM (1) Rig		el derrick.						
1:45PM-2:45PM (1) Circ.								
2:45PM-6:30PM (3.75) PG	OH.							
6:30PM-8:00PM (1.5) WC	) Schluml	perger						
8:00PM-12:00AM (4) RU	Schlumbe	erger, could	not get past 1	1,970'. RD	Schlumberge	r		
12:00AM-3:15AM (3.25) (	SIH.							
3:15AM-4:15AM (1) Wash	1 90' to bo	ottom.						
4:15AM-5:30AM (1.25) Ci	rc.							
5:30AM-6:00AM (.5) POC	)H.							
Well Site Representative:	Randy S	helton						

							Bear	cat #2
Lease			Well No.	Location		County/State		Report Date
Tohonadla			1-E	sec.35	5-41S21E	San Juan Co.	Utah	09/27/2010
Current Operation			Total Depth		Footage	Hours	Days Since Spud	Cum Rot Hrs.
Short T	rip		5,913	i	188	18.5	11	195.25
Time Summary	Hrs.		Bit Record		Mud	Record	Drlg As	ssembly
Drlg.	18.50	Bit No.	3		Weight	9.5	Collars	611.57
Wash and Ream		Size	7 7/8		Visc (Sec)	55	Motor	29.33
Circulating	2.00	Mfg.	Reed		W.LCC's	6	XO	hwdt121.97
Rig Serv.		Туре	r30ap		FC 32's	2	WOB	35x40
Trips		Serial No	k42573		рН	10.5	RPM (Top/Bit)	50/120
Surveys	0.00	In	4,900		Solids %	7	Tit iii (Top/Dit)	36,126
Cmtg.		Out	1,000		Gels			<u>I</u>
Run Csg.		Ftg	1,013		PV	18	PUMF	P DATA
NU BOP's		Hrs.	92.75		YP	16	Liners	6
Change BHA		Rate(ft/hr)	10.9		SS	0.2	Stroke	9
Rig Rprs		Jets	3x18		CA	200	SPM	108
MIRU		TBG	OXIO		CL	1000	Press(on/off btm)	1,400
COST DETAIL	D	AILY	CUMUL	_ATIVE		DETAIL	DAILY	CUMULATIVE
Loc & Roads			\$33,099		Anchors			\$5,775
Rig Cost		\$11,850		+	Cement			\$34,512
Bits		. ,	\$15,100		Welder			\$1,550
Mud		\$1,753			Surf Rental	Equip	\$850	
Water		\$320		+	Fuel	• •		\$17,204
Supervision		\$750			Trucking			\$3,860
Geological/Mud Logger		\$1,100	\$7,700		Logging			
Rig Move		•	\$7,391		Test BOPs			\$2,343
Casing & Pipe			\$35,200		Wellhead (M	fisc)		\$2,180
Motor		\$204	\$24,320	i	TOTA	L COST	\$16,827	\$386,576
DETAILS:								
6:00AM-9:15AM 3.25) Dr	ig.							
9:15AM-9:30AM (.25) Rig	g serv.							
9:30AM-7:00PM (9.5) Dr								
7:00PM-7:15PM (.25) Rig	g Serv.							
7:15PM-1:00AM (5.75) Di	rlg. Reach	ned TD of 59	13					
1:00AM-3:00AM (2) Circ.								
3:00AM-5:00AM (2) POO	H to csg.							
5:00AM-6:00AM (1) GIH 2	25 stands	i.						
Well Site Representative:	Randy S	helton						

							Bear	cat #2
Lease			Well No.	Location		County/State		Report Date
Tohonadla			1-E	sec.35	5-41S21E	San Juan Co.	Utah	09/26/2010
Current Operation			Total Depth		Footage	Hours	Days Since Spud	Cum Rot Hrs.
Drlg			5,725	1	270	22.25	10	176.75
Time Summary	Hrs.		Bit Record		Mud	Record	Drlg As	ssembly
Drlg.	22.25	Bit No.	3		Weight	9.1	Collars	611.57
Wash and Ream		Size	7 7/8		Visc (Sec)	42	Motor	29.33
Circulating		Mfg.	Reed		W.LCC's	6.8	XO	hwdt121.97
Rig Serv.	1.25	Туре	r30ap		FC 32's	2	WOB	35x40
Trips		Serial No	k42573		рН	10.5	RPM (Top/Bit)	50/120
Surveys	0.50		4,900		Solids %	4	(1.5)	50,12
Cmtg.		Out	1,000		Gels	1/7		
Run Csg.		Ftg	825		PV	12	PUMF	PDATA
NU BOP's		Hrs.	74.25		YP	9	Liners	6
Change BHA		Rate(ft/hr)	11.1		SS	0.2	Stroke	9
Rig Rprs		Jets	3x18		CA	200	SPM	108
MIRU		TBG			CL	800	Press(on/off btm)	1,400
COST DETAIL	D	AILY	CUMUL	_ATIVE	COST	DETAIL	DAILY	CUMULATIVE
Loc & Roads			\$33,099		Anchors			\$5,775
Rig Cost		\$11,850	\$130,350		Cement			\$34,512
Bits			\$15,100		Welder			\$1,550
Mud		\$1,810	\$17,052		Surf Rental	Equip	\$850	\$8,580
Water		\$320	\$11,590		Fuel			\$17,204
Supervision		\$750	\$15,000	1	Trucking			\$3,860
Geological/Mud Logger		\$1,100	\$6,600	1	Logging			
Rig Move			\$7,391		Test BOPs			\$2,343
Casing & Pipe			\$35,200	i	Wellhead (M	•		\$2,180
Motor		\$2,475	\$22,285		TOTA	AL COST	\$19,155	\$369,671
DETAILS:								
6:00AM-11:00AM (5) Drl	g.							
11:00AM-11:30AM (.5) R	ig serv.							
11:30AM-12:00PM (.5) S	urvey 2.7	'5 degr. @ 5	,443'.					
12:00PM-4:45PM (4.75)	Drlg.							
4:45PM-5:00PM (.25) Rig	service.							
5:00PM-12:30AM (7.5) Di	rlg.							
12:30AM-1:00AM (.5) Rig	service.							
1:00AM-6:00AM (5) Drlg.								
Mall Cita Dames and di	Donal C	h a l4 a						
Well Site Representative:	Randy SI	Hellon						

							Bear	cat #2
Lease			Well No.	Location		County/State		Report Date
Tohonadla			1-E	sec.35	-41S21E	San Juan Co	. Utah	09/25/2010
Current Operation			Total Depth		Footage	Hours	Days Since Spud	Cum Rot Hrs.
Drlg	l		5,455		235	23	9	154.5
Time Summary	Hrs.		Bit Record		Mud	Record	Drla A	ssembly
Drlg.		Bit No.	3		Weight	9.1	Collars	611.57
Wash and Ream		Size	7 7/8		Visc (Sec)	44	Motor	29.33
Circulating		Mfg.	Reed		W.LCC's	7.2	XO	hwdt121.97
Rig Serv.	1.00	Type	r30ap		FC 32's	2	WOB	35x40
	1.00	Serial No	k42573			11		50/120
Trips					pH Solids %	1	RPM (Top/Bit)	30/120
Surveys		In Out	4,900			4 4/4.0		
Cmtg.		Out			Gels	1/10	DUME	DATA
Run Csg.		Ftg	555		PV	13	+	P DATA
NU BOP's		Hrs.	52		YP	12	Liners	6
Change BHA		Rate(ft/hr)	10.7		SS	0.25	Stroke	9
Rig Rprs		Jets	3x18		CA	240	SPM	109
MIRU		TBG			CL	800	Press(on/off btm)	1,300
COST DETAIL	D	AILY	CUMUL	ATIVE	COST	DETAIL	DAILY	CUMULATIVE
Loc & Roads			\$33,099		Anchors			\$5,775
Rig Cost		\$11,850	\$118,500		Cement			\$34,512
Bits			\$15,100		Welder			\$1,550
Mud		\$2,123	\$15,242		Surf Rental	Equip	\$850	\$7,730
Water		\$320	\$11,270		Fuel			\$17,204
Supervision		\$750	\$14,250		Trucking			\$3,860
Geological/Mud Logger		\$1,100	\$5,500		Logging			
Rig Move			\$7,391		Test BOPs			\$2,343
Casing & Pipe			\$35,200		Wellhead (M	fisc)		\$2,180
Motor		\$2,530	\$19,810		TOTA	AL COST	\$19,523	\$350,516
DETAILS:								
6:00AM-9:45AM (3.75) D	Ind.		<u> </u>					
9:45AM-10:15AM (.5) Rig								
10:15AM-6:00PM (7.75)								
6:00PM-6:30PM (.5) Rig	_							
6:30PM-6:00AM (11.5) Di								
	<u>g.</u>							
Well Site Representative:	Randy S	helton	<u> </u>		<u></u>			

							Dear	cat #2
Lease			Well No.	Location		County/State		Report Date
Tohonadla			1-E	sec.35	-41S21E	San Juan Co.	Utah	09/24/2010
Current Operation			Total Depth		Footage	Hours	Days Since Spud	Cum Rot Hrs.
Drlg			5,220		252	23	8	131.5
Time Summary	Hrs.		Bit Record		Mud	Record	Drlg As	ssembly
Drlg.	23.00	Bit No.	3		Weight	9.2	Collars	611.57
Wash and Ream		Size	7 7/8		Visc (Sec)	42	Motor	29.33
Circulating		Mfg.	Reed		W.LCC's	7.2	XO	hwdt121.97
Rig Serv.		Туре	r30ap		FC 32's	2	WOB	35x40
Trips		Serial No	k42573		рН	11	RPM (Top/Bit)	50/120
Surveys	0.50		4,900		Solids %	4	Tti W (Top/Bit)	00/120
Cmtg.	0.00	Out	1,000		Gels	1/7		
Run Csg.		Ftg	320		PV	13	PUME	P DATA
NU BOP's		Hrs.	29		YP	11	Liners	6
Change BHA		Rate(ft/hr)	11		SS	0.25	Stroke	9
Rig Rprs		Jets	3x18		CA	240	SPM	116
MIRU		TBG	3210		CL	800	Press(on/off btm)	1,330
COST DETAIL	D	AILY	CUMUL	ATIVE		DETAIL	DAILY	CUMULATIVE
Loc & Roads			\$33,099		Anchors			\$5,775
Rig Cost		\$11,850	\$106,650		Cement			\$34,512
Bits		<del></del>	\$15,100		Welder			\$1,550
Mud		\$2,880	\$13,119		Surf Rental	Eguip	\$850	
Water		\$460	\$10,950		Fuel		7000	\$17,204
Supervision		\$750	\$13,500		Trucking		\$1,496	
Geological/Mud Logger		\$1,100	\$4,400		Logging		<b>4</b> 1,100	72,222
Rig Move		Ψ.,.σσ	\$7,391		Test BOPs			\$2,343
Casing & Pipe		\$1,677	\$35,200		Wellhead (M	lisc)		\$2,180
Motor		\$2,530	\$17,280			L COST	\$23,593	
DETAILS:								
6:00AM-10:30AM (4.5) D	orla.							
10:30AM-10:45AM (.25)								
10:45AM-6:00PM (7.25)								
6:00PM-6:15PM (.25) Rig								
6:15PM-3:00AM (8.75) Di								
3:00AM-3:30AM (.5) Surv		gr. @ 5,197	·.					
3:30AM-6:00AM (2.5) Drl		<u>,                                    </u>						
, ,								
Well Site Representative:	Randy S	helton						

							Bear	cat #2
Lease			Well No.	Location		County/State		Report Date
Tohonadla			1-E	sec.35	5-41S21E	San Juan Co.	Utah	09/23/2010
Current Operation			Total Depth		Footage	Hours	Days Since Spud	Cum Rot Hrs.
Drlg			4,968		150	9.5	7	108.5
Time Summary	Hrs.		Bit Record		Mud	Record	Drlg As	ssembly
Drlg.	9.50	Bit No.	2	3	Weight	9.2	Collars	611.57
Wash and Ream	7.75	Size	7 7/8	7 7/8	Visc (Sec)	41	Motor	29.33
Circulating	0.50	Mfg.	Reed	Reed	W.LCC's	8	XO	hwdt121.97
Rig Serv.		Туре	e406-b7	r30ap	FC 32's	2	WOB	25x30
Trips		Serial No	177061	k42573	рН	10.5	RPM (Top/Bit)	50/120
Surveys	0.25		1,427	4900	Solids %	4	Tti W (Top/Bit)	00/120
Cmtg.	0.20	Out	4900	4300	Gels	7		
Run Csg.		Ftg	3,473	68	PV	14	PLIME	P DATA
NU BOP's		Hrs.	78.75	6	YP	9	Liners	6
Change BHA	0.50	Rate(ft/hr)	44.1	11.3	SS	0.25	Stroke	9
Rig Rprs	0.50	Jets	6x16	3x18	CA	240	SPM	114
MIRU		TBG	chip teeth	3810	CL	1000	Press(on/off btm)	1,450
COST DETAIL	D	AILY	CUMUL	LATIVE		DETAIL	DAILY	CUMULATIVE
Loc & Roads			\$33,099		Anchors			\$5,775
Rig Cost		\$11,850			Cement			\$34,512
Bits		\$8,100			Welder			\$1,550
Mud		\$1,403			Surf Rental	Eguip	\$2,100	
Water		\$380			Fuel	<u> </u>	\$7,555	. ,
Supervision		\$750	. ,		Trucking		ψ1,000	\$2,364
Geological/Mud Logger		\$1,100			Logging			ΨΞ,001
Rig Move		Ψί,ίου	\$7,391		Test BOPs			\$2,343
Casing & Pipe			\$33,523		Wellhead (M	lisc)		\$2,180
Motor		\$1,045				L COST	\$34,283	· ·
DETAIL O		·	·	!	<del>'</del>			
DETAILS:	1.							
6:00AM-6:45AM (.75) Dr	<u> </u>	- A 0.40						
6:45AM-7:00AM (.25) Su		gr. @ 4,849	•					
7:00AM-9:45AM (2.75) D								
9:45AM-10:15AM (.5) Cit								
10:15AM-1:30PM (3.25) F		. a.a.d b.i4						
1:30PM-2:00PM (.5) Char		r and bit.						
2:00PM-2:15PM (.25) Rig 2:15PM-4:00PM (1.75) G								
4:00PM-11:45PM (7.75) \		Ireem @ 10	086'-2 140' 2	/38'_2 E/4'	and 4 941' 4	900'		
11:45PM-12:00AM (.25) [		1100111 1 1,8	,00 -2,148, 2,	-JU-Z,U41	, anu 4,041 -4	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,		
12:00AM-12:15AM (.25) F		<u> </u>						
12:15AM-6:00AM (5.75) [								
12.10/10/ 0.00/10/ (0.70)	Jilg.							
Well Site Representative:	Randy S	helton						
Cito reprodentative.	. tariay O							

Lease Tohonadla  Current Operation Drlg Time Summary Drlg. Drlg Cemtent Circulating Rig Serv.	Hrs.		Well No. 1-E Total Depth		i-41S21E	County/State San Juan Co.	Utah	Report Date 09/22/2010
Current Operation Drlg Time Summary Drlg. Drlg Cemtent Circulating	Hrs.				5-41S21E	San Juan Co.	Utah	09/22/2010
Time Summary Drlg. Drlg Cemtent Circulating	Hrs.		Total Depth					00, ==, =0.0
Time Summary Drlg. Drlg Cemtent Circulating	Hrs.				Footage	Hours	Days Since Spud	Cum Rot Hrs.
Drlg. Drlg Cemtent Circulating			4,818		823	23	6	99
Drlg Cemtent Circulating	23.00		Bit Record		Mud	Record	Drlg As	ssembly
Drlg Cemtent Circulating		Bit No.	2		Weight	9.1	Collars	611.57
Circulating		Size	7 7/8		Visc (Sec)	40	Motor	29.33
		Mfg.	Reed		W.LCC's	10.2	XO	hwdt121.97
	0.50	Туре	e406-b7		FC 32's	2	WOB	20x30
Trips		Serial No	177061		pН	11	RPM (Top/Bit)	50/120
Surveys	0.50		1,427		Solids %	4	(	3 37 1 2 3
Cmtg.		Out	,		Gels			
Run Csg.		Ftg	3,391		PV	12	PUMF	DATA
NU BOP's		Hrs.	75.25		YP	9	Liners	6
Pressure testing		Rate(ft/hr)	45.1		SS	0.25	Stroke	9
Rig Rprs		Jets	6x16		CA	240	SPM	112
MIRU		TBG			CL	1000	Press(on/off btm)	1,350
COST DETAIL	D	AILY	CUMUL	_ATIVE		DETAIL	DAILY	CUMULATIVE
Loc & Roads			\$33,099		Anchors			\$5,775
Rig Cost		\$11,850	\$82,950		Cement			\$34,512
Bits		·	\$7,000		Welder			\$1,550
Mud		\$2,553	\$8,836		Surf Rental	Equip	\$600	
Water		\$490			Fuel			\$9,649
Supervision		\$750			Trucking			\$2,364
Geological/Mud Logger		\$1,100	\$2,200		Logging			
Rig Move		\$7,391	\$7,391		Test BOPs			\$2,343
Casing & Pipe			\$33,523		Wellhead (M	lisc)		\$2,180
Motor		\$2,530	\$13,705		TOTA	L COST	\$27,264	\$273,387
DETAILS:								
6:00AM-8:00AM (2) Drlg.								
8:00AM-8:15AM (.25) Rig	Serv.							
8:15AM-6:00PM (9.75) D								
6:00PM-6:30PM (.5) Surv	/ey .1.5 d	egr. @ 4,46	1.					
6:30PM-12:30AM (6) Drlg	j							
12:30AM-12:45AM (.25)	Rig serv.							
12:45AM-6:00AM (5.25) [	Orlg.							
Well Site Representative:	Randv SI	nelton						_
22								

							Bear	cat #2
Lease			Well No.	Location		County/State		Report Date
Tohonadla			1-E	sec.35	5-41S21E	San Juan Co	. Utah	09/21/2010
Current Operation			Total Depth		Footage	Hours	Days Since Spud	Cum Rot Hrs.
Drlg			3,995		1,026	22.5	5	76.5
Time Summary	Hrs.		Bit Record		Mud	Record	Drlg As	ssembly
Drlg.	22.50	Bit No.	2		Weight	H2o Drlg	Collars	611.57
Drlg Cemtent		Size	7 7/8		Visc (Sec)		Motor	29.33
Circulating		Mfg.	Reed		W.LCC's		XO	hwdt121.97
Rig Serv.	0.50	Туре	e406-b7		FC 32's		WOB	10x25
Trips		Serial No	177061		рН		RPM (Top/Bit)	50/120
Surveys	1.00		1,427		Solids %		1 ti iii (1 op/2 ti)	30/120
Cmtg.	1.00	Out	.,		Gels			<u>.I</u>
Run Csg.		Ftg	2,568		PV		PUMF	PDATA
NU BOP's		Hrs.	52.25		YP		Liners	6
Pressure testing		Rate(ft/hr)	48.9		SS		Stroke	9
Rig Rprs		Jets	6x16		CA		SPM	114
MIRU		TBG	OXIO		CL		Press(on/off btm)	1,200
COST DETAIL	D	AILY	CUMUL	_ATIVE		DETAIL	DAILY	CUMULATIVE
Loc & Roads			\$33,099		Anchors			\$5,775
Rig Cost		\$11,850	·	1	Cement			\$34,512
Bits			\$7,000		Welder			\$1,550
Mud		\$1,227	\$6,283		Surf Rental	Equip	\$600	
Water		\$480	\$9,620		Fuel			\$9,649
Supervision		\$750			Trucking			\$2,364
Geological/Mud Logger		\$1,100	\$1,100		Logging			
Conductor, Rat & Mouse					Test BOPs			\$2,343
Casing & Pipe			\$33,523		Wellhead (M	lisc)		\$2,180
Motor		\$2,475	\$11,175		TOTA	L COST	\$18,482	\$246,123
DETAILS:								
6:00AM-8:00AM (2) Drlg.								
8:00AM-8:15AM (.25) Rig	g Serv.							
8:15AM-5:30PM (9.25) D	rlg.							
5:30PM-6:00PM (.5) Surv	vey .1 deg	gr. @ 3,449'.	•					
6:00PM-12:15AM (6.25)	Drlg							
12:15AM-12:30AM (.25)	Rig serv.							
12:30AM-5:00AM (4.5) Di	_							
5:00AM-5:30AM (.5) Surv	vey 2 deg	ır. @ 3,964'.						
5:30AM-6:00AM (.5) Drlg	l-							
Well Site Representative:	Randy SI	helton						

							Bear	cat #2
Lease			Well No.	Location		County/State		Report Date
Tohonadla			1-E	sec.35	5-41S21E	San Juan Co.	Utah	09/20/2010
Current Operation			Total Depth		Footage	Hours	Days Since Spud	Cum Rot Hrs.
Drlg			2,969	)	1,217	22.25	4	54
Time Summary	Hrs.		Bit Record		Mud	Record	Drlg As	ssembly
Drlg.	22.25	Bit No.	2		Weight	H2o Drlg	Collars	611.57
Drlg Cemtent		Size	7 7/8		Visc (Sec)		Motor	29.33
Circulating		Mfg.	Reed		W.LCC's		XO	hwdt121.97
Rig Serv.	0.75	Туре	e406-b7		FC 32's		WOB	10x25
Trips	1.00	Serial No	177061		рН		RPM (Top/Bit)	50/120
Surveys		In	1,427		Solids %		( - 1 - 7	
Cmtg.		Out	,		Gels			<u>.</u>
Run Csg.		Ftg	1,542		PV		PUMP	DATA
NU BOP's		Hrs.	29.75		ΥP		Liners	6
Pressure testing		Rate(ft/hr)	51.9		SS		Stroke	9
Rig Rprs		Jets	6x16		CA		SPM	113
MIRU		TBG			CL		Press(on/off btm)	1,050
COST DETAIL	D	AILY	CUMUL	LATIVE		DETAIL	DAILY	CUMULATIVE
Loc & Roads			\$33,099		Anchors			\$5,775
Rig Cost		\$11,850		+	Cement			\$34,512
Bits		<del></del>	\$7,000	+	Welder			\$1,550
Mud		\$528			Surf Rental	Equip	\$600	
Water		*	\$9,140		Fuel		,	\$9,649
Supervision		\$750		+	Trucking			\$2,364
Geological/Mud Logger		*	, ,,,,,,,		Logging			* /
Conductor, Rat & Mouse					Test BOPs			\$2,343
Casing & Pipe			\$33,523	3	Wellhead (N	/lisc)		\$2,180
Motor		\$2,530				AL COST	\$16,258	
DETAILS:								
6:00AM-8:15AM (2.25) D	rlg.							
8:15AM-8:45AM (.5) Rig								
8:45AM-9:15AM (.5) Drlg								
9:15AM-9:30AM (.25) Su		degr. @ 1,86	39'.					
9:30AM-9:00PM (11.5) D								
7:15PM-7:45PM (.5) GIH	. Tag cei	ment @ 1,38	37'.					
7:45PM-9:00PM (1.25) Di								
9:00PM-9:30PM (.5) Sur	vey 1.75 (	degr. @ 2,46	59'.					
9:30PM-12:15AM (2.75)								
12:15AM-12:30AM (.25)	Rig serv.							
12:30AM-5:30AM (5) Drlg	g							
5:30AM-5:45AM (.25) Su	rvey 1.75	degr. @ 2,9	951'.					
5:15AM-6:00AM (.25) Drl	lg.							
W # 0'' 5	<u> </u>							
Well Site Representative:	Kandy SI	nelton						

							Bear	cat #2
Lease			Well No.	Location		County/State		Report Date
Tohonadla			1-E	sec.35	5-41S21E	San Juan Co.	Utah	09/19/2010
Current Operation			Total Depth	I	Footage	Hours	Days Since Spud	Cum Rot Hrs.
Drlg			1,752	!	325	7.5	3	31.75
Time Summary	Hrs.		Bit Record		Mud	Record	Drlg As	ssembly
Drlg.	7.50	Bit No.	2		Weight	H2o Drlg	Collars	611.57
Drlg Cemtent	1.75	Size	7 7/8		Visc (Sec)		Motor	29.33
Circulating		Mfg.	Reed		W.LCC's		XO	hwdt121.97
Rig Serv.	0.25	Туре	e406-b7		FC 32's		WOB	10x25
Trips	1.50	Serial No	177061		рН		RPM (Top/Bit)	50/120
Surveys		In	1,427		Solids %		( - 1 - 7	
Cmtg.		Out	,		Gels			L
Run Csg.		Ftg	325		PV		PUMP	DATA
NU BOP's	8.00		7.5		YP		Liners	6
Pressure testing		Rate(ft/hr)	43.3		SS		Stroke	9
Rig Rprs		Jets	6x16		CA		SPM	114
MIRU		TBG			CL		Press(on/off btm)	875
COST DETAIL	D	AILY	CUMUI	_ATIVE		DETAIL	DAILY	CUMULATIVE
Loc & Roads			\$33,099	)	Anchors			\$5,775
Rig Cost		\$11,850	\$47,400	1	Cement			\$34,512
Bits		Ψ,σσσ	\$7,000	-	Welder		\$870	
Mud		\$1,144	\$4,528		Surf Rental	Equip	\$600	
Water		\$650	\$9,140		Fuel	<u> </u>	7222	\$9,649
Supervision		\$750	\$9,750	1	Trucking			\$2,364
Geological/Mud Logger		ψ.σσ	ψο,. σο		Logging			<del>+=,00</del> .
Conductor, Rat & Mouse					Test BOPs		\$2,343	\$2,343
Casing & Pipe			\$33,523	1	Wellhead (M	(lisc)	ψ=,σ:σ	\$2,180
Motor		\$825	\$6,170			L COST	\$19,032	
		·	. ,		4		•	
DETAILS:			Di					
6:00AM-2:00PM (8) weld								. 12. 1
2:00PM-5:30PM (3.5) Pro	essure tes	ST BOP'S. TO	est inner and	outter fuel a	and choke line	e vaives, choke	manafold, pipe ram	s, bling rams, nygro
and TIW. 5:30PM-6:30PM (1) GIH	w/ DC's							
6:30PM-7:15PM (.75) tes		lvo.						
7:15PM-7:45PM (.5) GIH			7'					
7:45PM-9:00PM (1.25) Di			07.					
9:00PM-9:30PM (.5) Tes	_							
9:30PM-10:00PM (.5) Drl								
10:00PM-10:15PM (.25)			Psi					
10:15PM-12:00AM (1.75)		1411011 10 200	1 31.					
12:00AM-12:15AM (.25)		<u> </u>						
12:15AM-6:00AM (5.75)								
Well Site Representative:	Randy SI	helton						

							Dear	cat #2
Lease			Well No.	Location		County/State		Report Date
Tohonadla			1-E	sec.35	5-41S21E	San Juan Co.	Utah	09/18/2010
Current Operation			Total Depth		Footage	Hours	Days Since Spud	Cum Rot Hrs.
Welding on	wellhead		1,427	•	147	4	2	24.25
Time Summary	Hrs.		Bit Record		Mud	Record	Drlg As	ssembly
Drlg.	4.00	Bit No.	1		Weight	H2o Drlg	Collars	
Ream/wash		Size	12 1/4		Visc (Sec)		Motor	
Circulating	2.75	Mfg.	Reed		W.LCC's		XO	
Rig Serv.		Туре	rsx619ma1g		FC 32's		WOB	10x20
Trips	4.50	Serial No	218596		pН		RPM (Top/Bit)	50/140
Surveys		In	80'		Solids %		( . op/ )	00/110
Cmtg.	2.25	Out	1,427'		Gels			
Run Csg.	2.25		1,327'		PV		PUMP	DATA
Welding Wellhead		Hrs.	24.25		YP		Liners	6
WOC		Rate(ft/hr)	55.6		SS		Stroke	9
Rig Rprs	0.00	Jets	6xopen		CA		SPM	95/95
MIRU		TBG	Охорон		CL		Press(on/off btm)	1,800
COST DETAIL	D	AILY	CUMUL	_ATIVE		DETAIL	DAILY	CUMULATIVE
Loc & Roads			\$33,099	)	Anchors			\$5,775
Rig Cost		\$11,850		1	Cement		\$33,012	
Bits		**********	\$7,000	+	Welder		<b>****</b>	\$680
Mud		\$2,621	\$3,384	+	Surf Rental	Equip	\$600	
Water		\$860		+	Fuel	_ q«.p	\$4,429	
Supervision		\$750		+	Trucking		\$636	
Geological/Mud Logger		ψ.σσ	ψ0,000		Logging		<b>+</b>	ΨΞ,001
Conductor, Rat & Mouse					Test BOPs			
Casing & Pipe		\$32,323	\$33,523	<b>1</b>	Wellhead (M	lisc)		\$2,180
Motor		\$2,480		1	•	L COST	\$89,561	
		· ,		1	1			,
DETAILS:								
6:00AM-10:00AM (4) Drl								
10:00AM-11:00AM (1) C								
11:00AM-1:15PM (2.25)	•	to 8" DC.						
1:15PM-1:45PM (.5) Circ								
1:45PM-4:00PM (2.25) F		•						
4:00PM-6:15PM (2.25) F		•	8.625, J55, 2 <sub>4</sub>	4 lbs, STC.L	_anded casing	g at 1427'		
6:15PM-7:30PM (1.25) C								
7:30PM-9:45PM (2.25) (		•		•		•		
yield 2.36. 197.5 Bbls. Ta								6. Displace w/ 89.6
Bbls. H20. Slow rate at		Bumped plu	g 1420 Psi. I	Float held.	Cement fell ba	ack 15' from Ki	3.	
9:45PM-3:45AM (6) WO								
3:45AM-6:00AM (2.25) C	out off csg	j. Weld on v	/ellhead.					
Well Site Representative								

Lease Tohonadla			Well No.	Location				
Tohonadla			VVCII IVO.	Location		County/State		Report Date
			1-E	sec.3	5-41S21E	San Juan Co.	Utah	09/17/2010
Current Operation			Total Depth		Footage	Hours	Days Since Spud	Cum Rot Hrs.
Drlg	9		1,280	)	1,200	20.25	1	20.25
Time Summary	Hrs.		Bit Record		Mud	Record	Drlg As	sembly
Drlg.	20.25	Bit No.	1		Weight	H2o Drlg	Collars	
Ream/wash		Size	12 1/4		Visc (Sec)		Motor	
Circulating		Mfg.	Reed		W.LCC's		XO	
Rig Serv.	0.50	Туре	rsx619ma1g	1	FC 32's		WOB	10x20
Trips		Serial No	218596		рН		RPM (Top/Bit)	50/140
Surveys	1.25	In	80'		Solids %		,	
Cmtg.		Out			Gels			
Run Csg.		Ftg	1,200		PV		PUMP	DATA
Ck BOP		Hrs.	20.25		YP		Liners	6
PU BHA	2.00	Rate(ft/hr)	59.3		SS		Stroke	9
Rig Rprs		Jets			CA		SPM	95/95
MIRU		TBG			CL		Press(on/off btm)	1,800
COST DETAIL	D	AILY	CUMUL	LATIVE		DETAIL	DAILY	CUMULATIVE
Loc & Roads		\$17,342	\$33,099		Anchors			\$5,775
Rig Cost		\$11,850		1	Cement			\$1,500
Bits		+ /	\$7,000	1	Welder			\$680
Mud		\$763			Surf Rental	Equip	\$600	· · · · · · · · · · · · · · · · · · ·
Water		\$480	·		Fuel	1-1	\$5,220	
Supervision		\$750	\$8,250		Trucking		\$748	
Geological/Mud Logger		Logging		·	. ,			
Conductor, Rat & Mouse					Test BOPs			
Casing & Pipe			\$1,200		Wellhead (M	lisc)	\$2,180	\$2,180
Motor		\$2,625		1		L ĆOST	\$42,558	
DETAIL C.				•	•		•	
DETAILS:		ΙΛ						
6:00AM-8:00AM (2) Pick				40.40				
8:00AM-12:00PM (4) Dr		Spuaaea w	ell at 8 am 9-	16-10				
12:00PM-12:30PM (.5) F 12:30PM-4:00PM (3.5) F	_							
4:00PM-4:15PM (.25) S		ar @ 244'						
4:15PM-9:00PM (4.75) [	•	:gr. @ 344.						
9:00PM-9:30PM (.5) Sur	_	r @ 700'						
9:30PM-1:15AM (3.75)		1. @ 700.						
1:15AM-1:45AM (.5) Sui		ur @ 002'						
1:45AM-6:00AM (4.25)		ji. @ 992.						
1.43AIVI-0.00AIVI (4.23) 1	Jilg.							
Well Site Representative	· Dandy C	holton						

							Bear	cat #2
Lease			Well No.	Location		County/State		Report Date
Tohonadla			1-E	sec.35	5-41S21E	San Juan Co.	Utah	09/16/2010
Current Operation			Total Depth		Footage	Hours	Days Since Spud	Cum Rot Hrs.
Making up	BHA		80' GL					
Time Summary	Hrs.		Bit Record		Mud	Record	Drla As	l ssembly
Drlg.		Bit No.	1		Weight	1	Collars	
Ream/wash	1.00	Size	12 1/4		Visc (Sec)		Motor	
Circulating		Mfg.	Reed		W.LCC's		XO	
Rig Serv.		Туре	rsx619ma1g		FC 32's		WOB	
Trips		Serial No	218596	'	pH		RPM (Top/Bit)	
Surveys		In	80'		Solids %		IXI W (TOP/Dit)	
Cmtg.		Out	00		Gels			
Run Csg.		Ftg			PV		PLIME	DATA
Ck BOP Well down flow i	nipple 3.5				YP		Liners	
PU BHA		Rate(ft/hr)			SS		Stroke	
Rig Rprs	1.00	Jets			CA		SPM	
MIRU	18.00				CL		Press(on/off btm)	
COST DETAIL		AILY	СПМП	_ATIVE		DETAIL	DAILY	CUMULATIVE
Loc & Roads		\$10,000	\$15,757		Anchors		\$5,775	\$5,775
Rig Cost		\$11,850	\$11,850		Cement		\$1,500	\$1,500
Bits		\$7,000	\$7,000		Welder		\$680	\$680
Mud					Surf Rental	Equip	\$600	\$600
Water		\$6,500	\$7,150		Tanks			
Supervision		\$750	\$1,500		Trucking		\$980	\$980
Geological/Mud Logger					Logging			
Conductor, Rat & Mouse					Test BOPs			
Casing & Pipe			\$1,200		Wellhead (M			
Motor		\$240	\$240		TOTA	AL COST	\$45,875	\$54,232
DETAILS:								
6:00AM-12:00AM (18) M	IRU.		•					
12:00AM-3:30AM (3.5) W	Veld flow	nipple.						
3:30AM-4:30AM (1) Drlg			ole.					
4:30AM-6:00AM (1.5) Ma	ike up BF	łA.						
(i.e. i. =								
Well Site Representative:	Randy SI	helton						

## DAILY DRILLING REPORT - GENESIS ST OPERATINGS LLC

**Pete Martin Drilling** 

Lease			Well No.	Location		County/State		Report Date
Tohonadla			1-E	sec.35	-41S21E	San Juan Co.	Utah	08/15/2010
Current Operation			Total Depth		Footage	Hours	Days Since Spud	Cum Rot Hrs.
waiting o	n rig		80		0	0		
Time Summary	Hrs.		Bit Record		Mud	Record	Drlg As	sembly
Drlg.		Bit No.			Weight		Collars	
Ream/wash		Size			Visc (Sec)		Motor	
Circulating		Mfg.			W.LCC's		XO	
Rig Serv.		Туре			FC 32's		WOB	
Trips		Serial No			рН		RPM (Top/Bit)	
Surveys		In			Solids %			
Cmtg.		Out			Gels			
Run Csg.		Ftg			PV		PUMP	DATA
Ck BOP		Hrs.			YP		Liners	
Ck Rotating HD		Rate(ft/hr)			SS		Stroke	
Rig Rprs		Jets			CA		SPM	
MIRU		TBG			CL		Press(on/off btm)	
COST DETAIL	D	AILY	CUMUL	ATIVE	COST	DETAIL	DAILY	CUMULATIVE
Loc & Roads		\$5,757	\$5,757		Anchors		\$5,775	\$5,775
Rig Cost					Cement		\$1,500	\$1,500
Bits					Rig Move			
Mud					Surf Rental I	Equip		
Water		\$650	\$650		Tanks			
Supervision		\$750	\$750		Trucking			
Geological/Mud Logger					Logging			
Conductor, Rat & Mouse					Test BOPs			
Casing & Pipe		\$1,200	\$1,200		Wellhead (M	lisc)		
Welder						L COST	\$15,632	\$15,632
DETAILS:								
RU & drill conductor to 80	' Pun 16	S" Cea to 80'	Coment w/	ready miy	Drill rat hole 8	2 mouse hole		
NO & drill corludctor to so	. IXuii iC	Cay to ou	. Cement w/	Teauy IIIIA.	Dilli fat flole d	x mouse noie.		
Well Site Representative:	Randy Sl	helton						
<u> </u>								

#### STATE OF UTAH DEPARTMENT OF NATURAL RESOURCES DIVISION OF OIL, GAS AND MINING

#### **ENTITY ACTION FORM**

Operator:

**NAVAJO NATION OIL & GAS COMPANY** 

Operator Account Number: N 2550

Address:

PO BOX 4439

city WINDOW ROCK

state AZ zip 86515

Phone Number: (303) 534-8300

#### Well 1

API Number	Well	Name	QQ	Sec	Twp	Rng	County	
4303750005	TOHONADLA 35-P		SESE	35	415	21E SAN JUA		
Action Code	Current Entity Number	New Entity Number	Spud Date			Entity Assignmer Effective Date		
Α	99999	17840	8	3/29/201	0	10/28/10		
Comments:	-DLL		81	12/10				

Well 2

API Number	Well	QQ	Sec	Twp	Rng	County		
4303750006	TOHONADLA 1-E		SWNW	1	42S	21E	SAN JUAN	
Action Code	Current Entity Number	New Entity Number	Spud Date			Entity Assignme		
Α	99999	17841	8	/15/201	0	10/28/10		

#### Well 3

API Number	Well I	Well Name			Twp	Rng	County
Action Code	Current Entity Number	s	pud Dat	L te	Entity Assignment Effective Date		
omments:							

#### **ACTION CODES:**

- A Establish new entity for new well (single well only)
- B Add new well to existing entity (group or unit well)
- C Re-assign well from one existing entity to another existing entity
- D Re-assign well from one existing entity to a new entity
- E Other (Explain in 'comments' section)

RECEIVED

OCT 2 5 2010

_	_	
Λ	$\mathbf{r}$	Zior
т.	<b>.</b>	Z_1071

Name (Please Print)

Title

Operations Engineering Mgr

10/21/2010

Date

(5/2000)

# Division of Oil, Gas and Mining

# **OPERATOR CHANGE WORKSHEET (for state use only)**

of their responsibility to notify all interest owners of this change on:

**COMMENTS:** 

ROUTING CDW

X Change of Operator (Well Sold)  The operator of the well(s) listed below has chan	Operator Name Change/Merger								
	1/1/2011								
FROM: (Old Operator):				<b>TO:</b> ( New O					
N2190-ST Oil Company 1675 Broadway, Suite 1100	N3600-Genesis	•	· ·						
Denver, CO 80202						et, Suite 2100			
Denver, CO 80202				Denve	r, CO 8006	4			
Phone: 1 (303) 296-1908				Phone: 1 (303)	296-1908				
CA No.	CA No.								
WELL NAME	SEC	TWN	RNG	API NO	ENTITY NO	LEASE TYPE	WELL TYPE	WELL STATUS	
TOHONADLA 35-P	35	410S	210E	4303750005	17840	Indian	OW	P	
TOHONADLA 1-E	01	420S	210E	4303750006	17841	Indian	OW	P	
OPERATOR CHANGES DOCUMENT Enter date after each listed item is completed 1. (R649-8-10) Sundry or legal documentation was 2. (R649-8-10) Sundry or legal documentation was	is rec	eived fi	om the	NEW operator	on:	4/19/2011 Designation	of Agent		
3. The new company was checked on the <b>Depart</b>	nent	of Con	ımerce	, Division of Co	orporation	s Database on:		2/9/2011	
4a. Is the new operator registered in the State of U	Jtah:	_		Business Numb	ber:	7073743-0161			
5a. (R649-9-2)Waste Management Plan has been re	Requested	4/21/2011		•					
5b. Inspections of LA PA state/fee well sites complete.	n/a	_			•				
5c. Reports current for Production/Disposition & S		OK	-						
6. Federal and Indian Lease Wells: The BL	M an	d or the	BIA h	as approved the	- e merger, na	me change,			
or operator change for all wells listed on Federa 7. <b>Federal and Indian Units:</b>					BLM		BIA	-	
The BLM or BIA has approved the successor					•	n/a	,		
8. Federal and Indian Communization Ag	reem	ients (	"CA"	):					
The BLM or BIA has approved the operator to			n/a	,					
9. Underground Injection Control ("UIC"							ity to		
Inject, for the enhanced/secondary recovery un	it/pro	ject for	the wa	iter disposal wel	ll(s) listed o	n:	n/a	_	
DATA ENTRY:									
1. Changes entered in the Oil and Gas Database		Cl		4/19/2011	_	4/10/0011			
<ul><li>2. Changes have been entered on the Monthly Op</li><li>3. Bond information entered in RBDMS on:</li></ul>	perate	or Cna	nge Sp			4/19/2011			
<ol> <li>Fee/State wells attached to bond in RBDMS on</li> </ol>		n/a n/a	-						
5. Injection Projects to new operator in RBDMS of	n/a	-							
6. Receipt of Acceptance of Drilling Procedures for		- n/a							
BOND VERIFICATION:			•			•			
1. Federal well(s) covered by Bond Number:				n/a					
2. Indian well(s) covered by Bond Number:	RLB0006712	-							
3a. (R649-3-1) The <b>NEW</b> operator of any state/fe	e wel	l(s) list	ed cove		- umber	n/a		•	
3b. The <b>FORMER</b> operator has requested a release				-	n/a				
LEASE INTEREST OWNER NOTIFIC						•			
4. (R649-2-10) The <b>NEW</b> operator of the fee wells	has t	een co	ntacted	and informed b	y a letter fro	om the Division			

# STATE OF UTAH DEPARTMENT OF NATURAL RESOURCES DIVISION OF OIL, GAS AND MINING

## **DESIGNATION OF AGENT OR OPERATOR**

The	undersigned is, c	on record, the holder of oil and	gas lease				
	EASE NAME:	Navajo Tribal Tract 23					
TILLIA AL COLOR COLOR				_		RECEIVED	
L	EASE NUMBER:	Tribal No. 14-20-603-270	· · · · · · · · · · · · · · · · · · ·	_		APR 1 9 2011	
and	hereby designate	es			וֹם	V. OF OIL, GAS & MINING	
N	AME:	Genesis ST Operating LLC	N3600				
ADDRESS:		1660 Lincoln Street, Suite 2	2100				
		city Denver	(303)3	state C	O zip	80264	
egu secu	lations applicable	gent ☑ / operator □, with full a thereto and on whom the Div with the Oil and Gas Conservati vith respect to:	authority to act ir ision Director or	n his beha Authorized	lf in complying \ I Agent may ser	ve written or oral instru	ctions in
	(Describe acreage needed.)	e to which this designation is applicable	e. Identify each oil ar	nd gas well by	API number and na	ame. Attach additional pages	as
	Oil Well	API Number	Entity Num	ber			
	Tohonadla 1-	E 43-037-50006	17841				
		Bond#RLB0006	.712	D	Orleve to	D 41/91301 Russell Gas and Mining Engineering Technicia	
of the State	e lease and the 0	nis designation of agent/operato Dil and Gas Conservation Gene to understood that this designat	eral Rules and Pi	ocedural F	Rules of the Boa	rd of Oil, Gas and Mini	ng of the
		ne part of the designated agent/o					es, lease
The	lessee agrees to	promptly notify the Division Dir	ector or Authoriz	ed Agent o	of any change in	this designation.	
Effe	ctive Date of Des	signation:01/01/2011	_				
3Y:	(Name) Laure	en Germinario	_ <b>OF</b> :	(Company)	Navajo Nation (	Oil & Gas Company	
		nen Germinani		(Address)	1675 Broadway	, Suite 1100	
	(Title) <u>'Car</u>	nd Manager	-		<sub>city</sub> Denver		
	(Phone) (303)	534-8300			state CO	<sub>zin</sub> 80202	

STATE OF UTAH  DEPARTMENT OF NATURAL RESOURCES  DIVISION OF OIL, GAS AND MINING										AMENDED REPORT FORM 8 (highlight changes)  5. LEASE DESIGNATION AND SERIAL NUMBER: 14-20-603-270								
WELI	L COMP	LET	ION (	OR F	RECO	MPL	.ETIO	N RE	EPOF	RT AND	LOG		6. IF		ALLOTTE		BE NAME	
WELL COMPLETION OR RECOMPLETION REPORT AND LOG  1a. TYPE OF WELL:  OIL GAS WELL DRY OTHER  OTHER											7. UNIT or CA AGREEMENT NAME							
											n/a							
b. TYPE OF WORK;  NEW HORIZ. DEEP- RE- DIFF. WELL LATS. EN ENTRY DIFF.  OTHER											8. WELL NAME and NUMBER: Tohonadla 1-E							
2. NAME OF OPERATOR: Navajo Nation Oil & Gas Company												9. API NUMBER: 4303750006						
3. ADDRESS OF OPERATOR: P.O. Box 4439										10 FIELD AND POOL, OR WILDCAT  Tohonadla								
4. LOCATION OF WELL (FOOTAGES) AT SURFACE: 2081' FNL 417' FWL											, SECTIOI	N, TOWNS	HIP, RANG	Ξ,				
AT SURFACE:	2081. EM	L 41/	, FMI	•										VNW		42S		
AT TOP PRODUC	CING INTERVA	L REPOR	RTED BELO	OW:										*				
AT TOTAL DEPT	H:													county an Ju	I 125 A 1 1			
14. DATE SPUDDED 9/16/2010		DATE T.I	D. REACH	IED:	16. DATE	COMPL 2011	ETED:	Δ	BANDON	ED	READY TO F	RODUC	E 🔽		VATIONS		RT, GL): 1683'GL	
18. TOTAL DEPTH:				9. PLUG	BACK T.D		5.895		20. IF	<u></u>	OMPLETIONS			21. DEP	TH BRIDG		5,080	· 
*	TVD					TVD			2	2				PL	UG SET:	TVE		
22. TYPE ELECTRIC		MECHANI	ICAL LOG	S RUN (	Submit cop	y of each	)			23.				<b>7</b> 1 ,	<i></i>			
CBL/GR, AF	PS/Sonic									WAS WELL CORED? NO ✓ YES WAS DST RUN? NO ✓ YES					YES	= ' ' '		
										DIRECTIO	NAL SURVEY	<b>'</b> ?	NO		YES 🗌	(Subr	nit copy)	
24. CASING AND LI	NER RECORD	(Report a	all strings	set in w	ell)													
HOLE SIZE	SIZE/GRAD	DE '	WEIGHT (	(#/ft.)	TOP (	MD)	вотто	M (MD)			CEMENT TO NO. OF SA		SLURRY VOLUME (BBL)		CEMEN	T TOP **	AMOUNT	PULLED
12 1/4"	8 5/8 J	-55	24		0		1,4	27			prb	470	<u>,                                      </u>		15' KB			
7.7/01	- 4/2 1		4-								G	150			4 4 9 9 1 4 7		<u> </u>	
7 7/8"	5 1/2 J	-55	17		0	1	5,9	913	4,	882	G	200			148	0' KB		
											Light 956 G 50							
										G 50		30					•	
25. TUBING RECOR	L RD						L								<u> </u>		l	
SIZE	DEPTH SE	T (MD)	PACKE	R SET (	MD)	SIZE	: T	DEPTH	SET (MD	PACKE	R SET (MD)		SIZE		EPTH SE	T (MD)	PACKER S	ET (MD)
2 7/8	4,88	37	4	,887														
26. PRODUCING IN		SM									RATION REC							
FORMATION		TOP (	(MD)	вотто	BOTTOM (MD) TOP (TV		(TVD) BOTTOM (TVI		vi (TVD)	INTERVAL (Top/Bot - MD)		AD)	SIZE	NO. HOL			TUS	
(A) see attach	ieu														Ope	=	Squeezed Squeezed	
(C)	-									37 4.0					Ope	+	Squeezed	片
(D)															Оре	=	Squeezed	
28. ACID, FRACTUR	RE, TREATMEN	IT, CEME	NT SQUE	EZE, ETC			, <u>.</u>							*	Topo	<u>"'                                    </u>	Oquoozou	<del></del>
DEPTH I	NTERVAL								AM	OUNT AND T	YPE OF MAT	ERIAL						
see attached																		
							٠											
																•		
29. ENCLOSED AT	FACHMENTS:															30. WEL	L STATUS:	,
ELECTI	RICAL/MECHAN	NICAL LO	GS					GEOLOGI	C REPOR	т 🔲	DST REPORT	r [	DIREC	TIONAL S	URVEY			
SUNDR	Y NOTICE FOR	R PLUGGI	ING AND	CEMENT	VERIFICA	TION	$\equiv$	CORE AN		_	OTHER:		_					
	RECEIVED																	

(CONTINUED ON BACK)

(5/2000)

31. INITIAL PRO	DUCTION					INT	ERVAL A (As sho	wn in item #26)					
DATE FIRST PRO	ODUCED:	T	TEST DA	TE:		HOURS TESTED	);	TEST PRODUCTION	N OIL - BBL:	GAS - MCF:	WATER - B	BL:	PROD. METHOD:
3/4/2011	_							RATES: →					
CHOKE SIZE:	TBG. PRES	S.	CSG. PRE	ESS.	API GRAVITY	BTU – GAS	GAS/OIL RATIO	24 HR PRODUCTIO RATES: →	N OIL BBL:	GAS – MCF:	WATER - B	BL:	INTERVAL STATUS
				-		INTI	ERVAL B (As sho	wn in item #26)					
DATE FIRST PRO	ODUCED:		TEST DA	TE:		HOURS TESTED	<b>)</b> :	TEST PRODUCTION RATES: →	N OIL BBL:	GAS – MCF:	WATER 8	BBL:	PROD. METHOD:
CHOKE SIZE:	TBG. PRES	S.	CSG. PRE	ESS.	API GRAVITY	BTU – GAS	GAS/OIL RATIO	24 HR PRODUCTIO RATES: →	N OIL - BBL:	GAS – MCF:	WATER – B	BL:	INTERVAL STATUS
						INTI	ERVAL C (As sho	wn in item #26)					
DATE FIRST PRO	ODUCED:	-	TEST DA	TE:		HOURS TESTED	):	TEST PRODUCTION RATES: →	N OIL – BBL:	GAS MCF:	WATER - B	BL:	PROD. METHOD:
CHOKE SIZE:	TBG. PRES	S.	CSG. PRE	ESS.	API GRAVITY	BTU – GAS	GAS/OIL RATIO	24 HR PRODUCTIO RATES: →	N OIL – BBL:	GAS MCF:	WATER – B	BBL:	INTERVAL STATUS:
						INTI	ERVAL D (As sho	wn in item #26)					
DATE FIRST PRO	ODUCED:		TEST DA	TE:		HOURS TESTED	):	TEST PRODUCTION RATES: →	N OIL - BBL:	GAS MCF:	WATER - B	BL:	PROD. METHOD:
CHOKE SIZE:	TBG. PRES	S.	CSG. PRE	ESS.	API GRAVITY	BTU – GAS	GAS/OIL RATIO	24 HR PRODUCTIO RATES: →	N OIL – BBL:	GAS – MCF:	WATER - B	BL:	INTERVAL STATUS:
32. DISPOSITIO vented	N OF GAS (S	Sold, U	sed for F	uel, Vent	ted, Etc.)								
33. SUMMARY	OF POROUS	ZONE	S (Include	e Aquifer	rs):				34. FORMATION	ON (Log) MARKERS:			
Show all importar tested, cushion us							tests, including de	epth interval					
Formatio	on		op (ID)	Botto (ME		Descript	tions, Contents, etc	<b>.</b>	Name			(1	Top Measured Depth)
Upper Ism	av	4.9	934	4,9	70								
Lower Isma	- 1		022	5,0									
U. Desert (	· .		108	5,1									
Akah			470	5,4									
U. Barker	Creek		532	5,5									
M. Barker			570	5,6							į		
Pinkerton <sup>*</sup>			714	5,7									
L. Barker (			753	5,7									
35. ADDITIONAL	REMARKS	(includ	de pluggi	na proce	edure)								
		·	h33.	g proce									
3/17/2011	: 130 BC	Э, З	BW, 2	235 ps	si tubing, 1	2/64" AC, 2	24 hrs						
36. I hereby cert	tify that the f	oregoi	ng and a	ttached i	information is co	omplete and corre	ect as determined	from all available re	cords.		•		

U

- This report must be submitted within 30 days of • completing or plugging a new well
  - drilling horizontal laterals from an existing well bore
  - recompleting to a different producing formation
- reentering a previously plugged and abandoned well

DATE

- significantly deepening an existing well bore below the previous bottom-hole depth
- drilling hydrocarbon exploratory holes, such as core samples and stratigraphic tests

\*\* ITEM 24: Cement Top - Show how reported top(s) of cement were determined (circulated (CIR), calculated (CAL), cement bond log (CBL), temperature survey (TS)).

Send to:

NAME (PLEASE PRINT)

SIGNATURE

Utah Division of Oil, Gas and Mining 1594 West North Temple, Suite 1210

Box 145801

Salt Lake City, Utah 84114-5801

Phone: 801-538-5340

Fax: 801-359-3940

<sup>\*</sup> ITEM 20: Show the number of completions if production is measured separately from two or more formations.

Tohonadia 1-E Testing Results

Spud: 16 Sep 201	Rig Release: 1 Oct 2010			<del></del>		
	Completion Start: 13 Dec 2010	Final Report: 4 Mar 2011	On Production: 4 Mar 2011			
KB: 4695 ft	GL: 4683 ft					
			Dalle accele accelho		SPUD Poculte (+/-72 hrs	1

Performance	KB: 4695 ft	GL: 4683 π		Daily swab results				SBHP Results (+/-72 hrs)						
	Perforated Zona	Stimulation	Date	SITD (nei)				Fluid Level	Swah runs	Depth (ft)			Gradient (psi/ft)	Comments
Larbor Creek   200p pir White halls, good tall   121/2010   125   50   33   500 Wild   127   1						D344								
Section   127/3/2013   125   43   20   1807-185   7	l													
12/7/7900   100   38   2220-9569   5	L. Daikei Cleek	1												
12/71/2001   60   85   22/71/2001   60   85   22/71/2001   60   250   0   77   60   250   0   77   60   250   0   77   60   250   0   77   60   250   0   77   60   250   0   77   60   250   0   77   60   250   0   77   60   250   0   77   60   250   20   20   20   20   20   20		action												
Total														
Total							ł	1			į			
\$7729 - \$7272	T-1-1		12/21/2010	1 80			<b>-</b>	2800 -1411	-					3740 4 107 5 115
Project   Proj		1000   159/ HCl @ 1 5 ham 9	12/22/2010	140				ND	12	5631	1740	1800	0.342	5 swab runs, 21 BO prior to acid
12/7/7000   200   72   12/7/7000   200   72   12/7/7000   200   72   12/7/7000   200   72   12/7/7000   200   72   12/7/7000   200   72   12/7/7000   200   72   12/7/7000   200   72   12/7/7000   200	•				- "		3,	1""		3031		1000	"""	
Total	Pinkerton Iraii	3601 psi			72									
Total							ŀ				!			Tan Banges, flow train Fine Pressure
1662   1662			12/28/2010	220				<del>                                     </del>						
M. Barker Creek  100 pai w/hob balls  1/4/2011  1/5/2011  320  320  320  1/5/2011  320  320  320  320  1/5/2011  320  320  320  320  320  320  320		1 450/1101 C 2 2 1	4 12 12044	<del> </del>	154	1 "	<del> </del>	-	1	5576	1606	1820	0.310	no fluid entry prior to acid job
1/3/7011   400   93   NR   4   1/300   300   1/300   300   1/300   300   1/300   300   1/300   300   1/300   300   1/300   300   1/300   300   1/300   300   1/300   300   1/300   300   1/300   300   1/300   300   1/300   300   1/300   300   1/300   300   300   1/300   300   300   1/300   300   300   1/300   3					٠.,		٫ ا	OL ND		3370	1090	1020	0.515	
1/6/2011   320   80   1800 4R   6	M. Barker Creek	3100 psi w/bio balls				I.	"		1 1					TIGHTUN 100% ON, 15 DEW ICH to recover
1/7/2011   375   375   35				[			1		"					
Total								1800 -NK	•		i			Flow 2 hrs. run gauges
Total					35	ŀ	1							
1508   1508   1508   1209   1375   1508   1209   1375   1508   1370   1372			1/10/2011	350		<u> </u>			+	<b></b>	<del></del>	<del>                                     </del>		hran Parikes
State   1/3   1/			4 /40 /0	-				7 ND	<del> </del>	6610	1636	1700	0.22	190% oil by 9th run
174/2011   400   55   181   174/2011   400   181   174/2011   400   181   174/2011   400   181   174/2011   400   181   174/2011   400   181   174/2011   400   181   174/2011   400   181   174/2011   400   181   174/2011   400   181   174/2011   400   181   174/2011   400   181   174/2011   400   181   174/2011   400   181   174/2011   400   181   174/2011   400   181   174/2011   400   181   174/2011   400   181   174/2011   400   181						1	67		9	5518	1626	1/00	0.32	
M. Barker Creek   1/17/2011   400   181   201   25 NR   3 5486   1818   1780   0.333 tarted flowing after 3 swab runs   17/3/2011   350   122   17/3/2011   350   122   17/3/2011   350   127   17/3/2011   350   127   17/3/2011   350   127   17/3/2011   350   127   17/3/2011   350   127   17/3/2011   350   127   17/3/2011   350   127   17/3/2011   350   127   17/3/2011   350   127   17/3/2011   350   127   17/3/2011   350   127   17/3/2011   350   127   17/3/2011   350   127   17/3/2011   350   127   17/3/2011   350   127   17/3/2011   300   17/3/2011   300   17/3/2011   300   17/3/2011   300   17/3/2011   300   17/3/2011   300   17/3/2011   300   17/3/2011   300   17/3/2011   300   17/3/2011   300   17/3/2011   300   120   300   18/3/2011   300   120		2100 psi w/144 bio balls						NK	6			1		
1762    1763    1764    1765						1		1	i		1			
1/8/2011   350   122   1/9/2011   350   122   1/9/2011   350   122   1/9/2011   350   122   1/9/2011   350   122   1/9/2011   350   122   1/9/2011   350   122   1/9/2011   350   122   1/9/2011   350   122   1/9/2011   350   122   1/9/2011   350   122   1/9/2011   350   122   1/9/2011   350   122   1/9/2011   350   1/9/2011			1/17/2011	400			<u> </u>	ļ		ļ	-			puli pressure gauges
M. Barker Creek M. Barker Cre				ļ.,			<u> </u>	4	1				2.224	1
Flowed   Section   Flowed   Flower	1						2!	NR	3	5486	1618	1/80	0.333	
Total	M. Barker Creek												ľ	1
Total		1		1					1					
Total						·ľ							İ	
100 gal. 15% HCl @ 1.7 bpm & 1/27/2011   290   70   1/27/2011   290   288   0   40   4   4   50   50   50   50			1/24/2011	300										pull pressure gauges
1.   1.   1.   1.   1.   1.   1.   1.				ļ				ļ					0.200	1000/ 11 - Last 20 F BIM(17B
1/27/2011   290   70							70		_	5455	1630		0.338	1
1/31/2011   288   0	U. Barker Creek	3200 psi w/bio balls						1	1 .					
Total					70	1		NR	1					Programme and the contract of
Swabbed dry, no fluid entry   Swabbed dry, no fluid entry			1/31/2011			ļ			ļ		<u> </u>			pull pressure gauges
Akah 3300 psi	Total				288			<b>-</b>						A 11 11 71 11 11 11 11 11 11 11 11 11 11
100 gal. 15% HCl @ 1.5 bpm & 300 psi   15% HCl @ 1.5 bpm & 3/4/2011   300   120   30 NR   6   300 NR   6   300 NR   6   300 NR   6   4   4   4   4   4   4   5   4   4   5   5	1		2/1/2011				41	P	4		1			Swapped dry, no fluid entry
M. Desert Creek 3900 psi 2/3/2011 300 120 30 NR 6 Pflow 6 hrs, run pressure gauges 2/4/2011 350 96 2/4/2011 350 96 2/4/2011 1.5 Suabbed dry 1.5 Suab f/seating nipple 2/14/2011 350 18 5 NR 9 Suab down in 3 runs, make hourly runs f/seating nipple 3/14/2011 350 17 5 NR 9 Suab down in 3 runs, make hourly runs runs from in 3 runs, make hourly runs from in 3 runs, make hourly runs runs from in 3 runs, make hourl	Akah							<u> </u>						10000 11
2/4/2011   350   96   24   24   24   3190 psi w/bio balls, ISIP 2580 psi, 3 /3/2011   500 gal. 15% HCl @ 2 bpm & 480f - 4970'   4934' - 4942'   150 gal. 15% HCl @ 2 bpm & 2/28/2011   550 gal. 15% HCl @ 2 bpm & 3/2/2011		1 -							7			l		
Pull gauges, BP failed pressure test	M. Desert Creek	3900 psi					31	DINR	6					
Total	ļ				96	i		i						
Total	1					1			1	İ			I	
Si08'-5115'   1000 gal. 15% HCl @ 3.1 bpm & 2/10/2011   350   18   5   NR   9   Swab f/seating nipple make hourly runs f/seating nipple saw b down in 3 runs, make hourly runs from the pressure gauges pull pressure gau			2/8/2011	<u> </u>									ļ	swapped dry
Silp - 5126	Total			ļ							<u> </u>		<del>                                     </del>	
U. Desert Creek    2/14/2011   350   17   5   NR   9   swab down in 3 runs, make hourly runs run pressure gauges   1500 gal. 15% HCl @ 2 bpm & 2/21/2011   550   491   5035 · 5060'   2800 psi w/bio balls, max rate 4.7   2/22/2011   550   62   491   500 gal. 15% HCl @ 2 bpm & 2/25/2011   550   62   491   500 gal. 15% HCl @ 2 bpm & 2/25/2011   550   62   5060'   2000 psi w/bio balls, max rate 4.7   2/22/2011   550   62   5000 psi w/bio balls, max rate 4.7   2/22/2011   550   62   5000 psi w/bio balls, max rate 4.7   2/23/2011   550   62   5000 psi w/bio balls, max rate 4.7   2/23/2011   550   62   5000 psi w/bio balls, max rate 4.7   2/23/2011   550   62   5000 psi w/bio balls, max rate 4.7   2/23/2011   550   62   5000 psi w/bio balls, max rate 4.7   2/23/2011   550   62   5000 psi w/bio balls, max rate 4.7   2/23/2011   550   62   5000 psi w/bio balls, max rate 4.7   2/23/2011   550   62   5000 psi w/bio balls, max rate 4.7   2/23/2011   550   62   5000 psi w/bio balls, max rate 4.7   2/23/2011   550   62   5000 psi w/bio balls, ISIP 2580 psi, 31/2011   600   100   420   5000 psi w/bio balls, ISIP 2580 psi, 31/2011   600   600   600 psi w/bio balls, ISIP 2580 psi, 31/2011   600   600   600 psi w/bio balls, ISIP 2580 psi, 31/2011   600   600   600 psi w/bio balls, ISIP 2580 psi, 31/2011   600   600 psi w/bio balls, ISIP 2580 psi, 31/2011   600 psi w/bio balls, ISIP 2580 psi, 31/201					1	i .				5042	756	1	I	
2/15/2011   250   NR   3   run pressure gauges   pull pressure gau	5119' - 5126'	4145 psi w/bio balls		1					-				1	
Total	U. Desert Creek			1		<u>'</u>	1 :		1 -					I .
Total 42  5022' - 5028' 1500 gal. 15% HCl @ 2 bpm & 2/21/2011 500 gal. 25% HCl @ 2 bpm & 2/21/2011 550 62  5035' - 5060' 2800 psi w/bio balls, max rate 4.7  Lower Ismay bpm, ISIP 1000 psi, 3 min SIP vacuum 2/25/2011 550 62  Total 740  4560' - 4970' 4560' - 4970' 3150 psi w/bio balls, ISIP 2580 psi, 3/1/2011 600 10 42 680' - NR  5wab 1.5 hrs, flow 3.5 hrs  Flow 8 hrs, fTP 100 psi Flow 2 hrs, run pressure gauges  Pull pressure gauges  Swab 1.5 hrs, flow 3.5 hrs  Flow 8 hrs, fTP 100 psi Flow 2 hrs, run pressure gauges  Pull pressure gauges  Swab to SN, 6 hrs, recover 1 BO per hour  4560' - 4970' 3190 psi w/bio balls, ISIP 2580 psi, 3/1/2011 600 10 42 4680' - NR  Swab to SN, 6 hrs, recover 1 BO per hour  4680' - NR  Swab 8 hrs, starting FL 200' above SN								NR	3	1				
1500 gal. 15% HCl @ 2 bpm & 2/21/2011   600 491   187   42 NR   6 4987   1594			2/17/2011	300		ŀ					ļ	ļ		puli pressure gauges
5035' - 5060' 2800 psi w/bio balls, max rate 4.7 2/22/2011 600 491 Flow 8 hrs, FTP 100 psi Flow 2 hrs, run pressure gauges Pull pressure gauges Pull pressure gauges Pull pressure gauges Pull pressure gauges Pull pressure gauges Pull pressure gauges Pull pressure gauges Pull pressure gauges Single 4970' 1500 gai. 15% HCl @ 2 bpm & 2/28/2011 8 25 NR 6 swab to SN, 6 hrs, recover 1 BO per hour 4934' - 4942' 3190 psi w/bio balls, ISIP 2580 psi, 3/1/2011 600 10 42 NR 7 which is made to SN, 6 hrs, 1200' above SN swab 8 hrs, starting FL 200' above SN	Total						ļ	<u> </u>	<b></b>			ļ		1151 025
Lower Ismay bpm, ISIP 1000 psi, 3 min SIP 2/23/2011 550 62 Flow 2 hrs, run pressure gauges Pull pressure gauges  Total 740 Swab to SN, 6 hrs, recover 1 BO per hour 4934' - 4942' 3190 psi w/bio balls, ISIP 2580 psi, 3/1/2011 600 10 422 NR 7  Upper Ismay 15 min 2420 psi 3/2/2011 60 6 4680' - NR swab 8 hrs, starting FL 200' above SN	5022' - 5028'						4	2 NR	6	4987	1594	1		
Vacuum   2/25/2011   Pull pressure gauges	5035' - 5060'	2800 psi w/bio balls, max rate 4.7					1							
Total 740 860' - 4970' 1500 gal. 15% HCl @ 2 bpm & 2/28/2011 8 25 NR 6 88ab to SN, 6 hrs, recover 1 80 per hour 4934' - 4942' 3190 psi w/bio balls, ISIP 2580 psi, 3/1/2011 600 10 42 NR 7 900 NR 98ab 8 hrs, starting FL 200' above SN 98ab 8 hrs, starting FL 200'	Lower Ismay	bpm, ISIP 1000 psi, 3 min SIP			63	2	1	1						
4950' - 4970'     1500 gai. 15% HCl @ 2 bpm & 2/28/2011     8     25     NR     6     swab to SN, 6 hrs, recover 1 BO per hour       4934' - 4942'     3190 psi w/bio balls, ISIP 2580 psi, 3/1/2011     600     10     42     NR     7       Upper Ismay     15 min 2420 psi     3/2/2011     60     6     4680' - NR     swab 8 hrs, starting FL 200' above SN		vacuum	2/25/2011				ļ			ļ			<b></b>	Pull pressure gauges
3109 psi w/bio balls, ISIP 2580 psi, 3/1/2011 600 10 42 NR 7 Upper Ismay 15 min 2420 psi 3/2/2011 60 6 4680'- NR swab 8 hrs, starting FL 200' above SN	Total	1			740	)			J	ļ			<u> </u>	
Upper Ismay 15 min 2420 psi 3/2/2011 60 6 4680' - NR swab 8 hrs, starting FL 200' above SN	4960' - 4970'	1500 gal. 15% HCl @ 2 bpm &				1			1					swab to SN, 6 hrs, recover 1 BO per hour
Opper Isinay 15 min 2420 gs	4934' - 4942'	3190 psi w/bio balls, ISIP 2580 psi,			1	P	4		7	1			-	
	Upper Ismay	15 min 2420 psi	3/2/2011	60				4680' - NR						swab 8 hrs, starting FL 200' above SN
	Total				24	1		<u> </u>						

<sup>\* 2</sup>nd Acid job w/diversion

NR - Not reported, SFL - starting fluid level, LTR - left to recover

RBP at 5080' R3 Production packer @ 4887'

## STATE OF UTAH DEPARTMENT OF NATURAL RESOURCES

	5. LEASE DESIGNATION AND SERIAL NUMBER: 14-20-603-270
SUNDRY NOTICES AND REPORTS ON WELLS	6. IF INDIAN, ALLOTTEE OR TRIBE NAME:
	Navajo 7. UNIT or CA AGREEMENT NAME:
Do not use this form for proposals to drill new wells, significantly deepen existing wells below current bottom-hole depth, reenter plugged wells, or to drill horizontal laterals. Use APPLICATION FOR PERMIT TO DRILL form for such proposals.	n/a
1. TYPE OF WELL OIL WELL GAS WELL OTHER	8. WELL NAME and NUMBER:
2. NAME OF OPERATOR:	Tohonadla 1-E
Navajo Nation Oil & Gas Company	9. API NUMBER: 4303750006
3. ADDRESS OF OPERATOR: PHONE NUMBER:	10. FIELD AND POOL, OR WILDCAT:
P.O. Box 4439 CITY Window Rock STATE AZ ZIP 86515 (303) 534-8300	Tohonadla
4. LOCATION OF WELL FOOTAGES AT SURFACE: 2081' FNL 417' FWL	county: San Juan
QTR/QTR, SECTION, TOWNSHIP, RANGE, MERIDIAN: SWNW 1 $41$ S 21E	STATE: UTAH
11. CHECK APPROPRIATE BOXES TO INDICATE NATURE OF NOTICE, REP	ORT, OR OTHER DATA
TYPE OF SUBMISSION TYPE OF ACTION	·
NOTICE OF INTENT	REPERFORATE CURRENT FORMATION
(Submit in Duplicate)	SIDETRACK TO REPAIR WELL
Approximate date work will start: CASING REPAIR NEW CONSTRUCTION	TEMPORARILY ABANDON
CHANGE TO PREVIOUS PLANS OPERATOR CHANGE	TUBING REPAIR
CHANGE TUBING PLUG AND ABANDON	VENT OR FLARE
SUBSEQUENT REPORT (Submit Original Form Only)  CHANGE WELL NAME  PLUG BACK	WATER DISPOSAL
Date of work completion:  CHANGE WELL STATUS  PRODUCTION (START/RESUME)	WATER SHUT-OFF
COMMINGLE PRODUCING FORMATIONS RECLAMATION OF WELL SITE	OTHER:
CONVERT WELL TYPE RECOMPLETE - DIFFERENT FORMATION	N
12. DESCRIBE PROPOSED OR COMPLETED OPERATIONS. Clearly show all pertinent details including dates, depths, volu	imes, etc.
Date of first production 3/4/2011	
Producing from the Lower Ismay formation.	
Flouding nom the Lower Ismay formation.	
Production test 3/17/2011: 130 BO, 3 BW, 235 psi tubing, 12/64" AC, 24 hrs	
4 N Zian	Managag
NAME (PLEASE PRINT) A. D. Zisar TITLE Ops/Eng	Managar
NAME (PLEASE PRINT) A. D. Zier TITLE Ops/Engsignature Date 3-24-11	Managar

REPORT OF WATER	ENCOUNTEDED	DUDING DDII	LINIA
REPURI OF WATER	ENCOUNTERED	DURING DRIL	I ING

Well name and	number: Toh	onadla 1-E		
API number: 4	303750006			
Well Location:	QQ <u>SENW</u> Se	ction 1	Township 42S Range 21	W County San Juan
Well operator:	Navajo Nation	Oil & Gas	Company	
Address:	P.O. Box 443	9	<del></del>	
	city Window F	Rock	state AZ zip 86515	Phone: (303) 534-8300
Orilling contrac	tor: Bearcat D	rilling		
Address:	P.O. Box 717			
	city Farmingto	on	state NM zip 87499	Phone: (505) 327-5218
Nater encounte	ered (attach ac	Iditional pag	jes as needed):	
Г	DEP	TH	VOLUME	QUALITY
_	FROM	то	(FLOW RATE OR HEAD	1
				no water encountered
ļ 		<del></del>		
-				
.  -				
F				
-				
Ĺ				
Formation tons	. 4		2	
ormation tops (Top to Bottom)				3 6
	7			9
	10			
				RECEIVED
f an analysis h	as been made	of the wate	r encountered, please attach a	a copy of the report to this form. APR 07 2011
				DIV. OF OIL, GAS & MIN
		_	lete to the best of my knowledge.	
NAME (PLEASE PRIN	n <u> 4. Δ.</u>	Zier	TITI	THE OPS/Eng Manager  ATE 3-24-11
SIGNATURE	appei	>	DA	THE 3-24-11

## STATE OF UTAH

DEPARTMENT OF NATURAL RESOURCES DIVISION OF OIL, GAS AND MINING

FNTITY	<b>ACTION</b>	FORM

Operator:

Genesis ST Operating LLC

Operator Account Number: N 3600

Address:

1660 Lincoln Street, Suite 2100

city Denver

zip 80264 state CO

Phone Number: (303) 296-1908

Well 1

API Number	Well N	QQ	Sec	Twp	Rng	County	
4303750005	Tohonadla 35-P		SESE	35	41S	21E	SAN JUAN
Action Code	Current Entity Number	New Entity Number	Spud Date		Entity Assignment Effective Date		
С	. 17840	11202	8/12/2010		1/1/2011		

4/25/11

Well 2

425

API Number	Well	Well Name			Sec Twp		County
4303750006	Tohonadla 1-E	SWNW	1	415	21E	SAN JUAN	
Action Code	Current Entity Number	New Entity Number	Spud Date		Entity Assignment Effective Date		
С	17841	06230	8/15/2010		1/1/2011		

CHANGE TO MAKE BOTH WELLS ON LEASE USE SAME ENTITY NUMBER

4/25/11

Well 3

API Number	Well Name		QQ	QQ Sec Twp		Rng	County
Action Code	Current Entity Number	New Entity Number	\$	Spud Date		Entity Assignment Effective Date	
Comments:			<u> </u>				

### **ACTION CODES:**

- A Establish new entity for new well (single well only)
- **B** Add new well to existing entity (group or unit well)
- C Re-assign well from one existing entity to another existing entity
- D Re-assign well from one existing entity to a new entity,
- E Other (Explain in 'comments' section)

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	E	-	1	٦,	_ 7	V	il man	1
	0075	A STATE OF	4	. 1		W	-	

APR 2 5 2011

DICIL		FFRRIS
RILIN	4 K I J A	PERRIS

Name (Please Print)	0
Kirkard A.	Ferni
Śignature	

CHIEF OPERATIONS ENGINE 4/19/2011

Title Date

(5/2000)

## Division of Oil, Gas and Mining OPERATOR CHANGE WORKSHEET (for state use only)

ROUTING	
CDW	

	<b>X - Change of Operator (Well Sold)</b>	Operator Name Change/Merger											
Ī	The operator of the well(s) listed below has chan	1/1/2012											
FROM: (Old Operator): N3600A-Genesis ST Operating LLC 1660 Lincoln Street Ste 2100 Denver CO 80264						TO: (New Operator): N2550-Navajo Nation Oil & Gas CO Inc 1675 Broadway Ste 1100 Denver CO 80202							
Pho	one: 1 (303) 296-1908				Phon	e: 1 (928)	871-4880						
	CA No.			<del></del>	Uni		7071-4000						
WE		SEC	TWN	RNG			ENTITY	LEASE TYPE	WELL	NAME I			
						110	NO	LEASE TIPE	TYPE	WELL STATUS			
See	Attached List (8 wells)	<u> </u>								STATES			
Ento	PERATOR CHANGES DOCUMENT. er date after each listed item is completed (R649-8-10) Sundry or legal documentation wa (R649-8-10) Sundry or legal documentation wa	s rece	eived fr	om the	FOR	MER ope	erator on:	2/22/2012					
3.	The new company was checked on the Departm	ment.	of Com	moras	D::-:	operator	OII;	2/22/2012	ī				
4a.	is the new operator registered in the State of U	Itah:		imei ce	Busir	ness Numb	ochoramous	7407010-0147		2/29/2012			
5a. (	(R649-9-2)Waste Management Plan has been re	ceive	d on:			quested		7407010-0147	•				
5b.	Inspections of LA PA state/fee well sites compl	ete or	n:			N/A	•						
5c.	Reports current for Production/Disposition & S	undri	es on:	,	2/2	29/2012	_						
6.	Federal and Indian Lease Wells: The BL	M and	d or the	BIA h	as app	proved the	merger, na	me change,					
	or operator change for all wells listed on Federa Federal and Indian Units:	al or I	ndian le	eases o	n:		BLM		BIA	_ Not Yet			
_	The BLM or BIA has approved the successor	of un	it opera	ator for	wells	listed on:		Not Yet					
8.	Federal and Indian Communization Agr	reem	ents ('	'CA'')	):								
^	The BLM or BIA has approved the operator f	or all	wells li	isted w	ithin a	a CA on:		N/A					
9.	Underground Injection Control ("UIC"	) Di	vision l	has ap	prove	ed UIC F	orm 5 Tran	sfer of Author	ity to				
DA'	Inject, for the enhanced/secondary recovery unit TA ENTRY:	it/pro	ject for	the wa	ter dis	sposal wel	il(s) listed or	n:	N/A	_			
1.	Changes entered in the Oil and Gas Database	on:		_	2/2	9/2012							
2.	Changes have been entered on the Monthly Op	erato	r Char	ige Spi	read S	Sheet on:	•	2/29/2012					
	Bond information entered in RBDMS on: Fee/State wells attached to bond in RBDMS on:			-		N/A							
5. ]	Injection Projects to new operator in RBDMS on:			-		N/A							
6. J	Receipt of Acceptance of Drilling Procedures for	n. ΔP	D/New	on· -		N/A	NT/A						
BO	ND VERIFICATION:	74 A A A A	DITTOW	OII.		•	N/A			•			
	Federal well(s) covered by Bond Number:					N/A							
2. ]	Indian well(s) covered by Bond Number:			-		0006712							
3a.	(R649-3-1) The NEW operator of any state/fee	well	(s) liste	d cove	red by	Bond Nu	ımber	N/A					
3b. 7	The FORMER operator has requested a release	of lia	ability f	rom th	eir bo	nd on:	N/A	- 112					
	ASE INTEREST OWNER NOTIFICA												
1. (F	R649-2-10) The NEW operator of the fee wells	has b	een con	tacted	and in	formed by	y a letter fro	m the Division					
0	of their responsibility to notify all interest owners.  ### MENTS: Designation of Agent return operations of the interest owners.	s of th	nis chan	ige on:			N/A						
	minimi o Designation of Agent return operati	ons h	ack to a	owner						_			

### STATE OF UTAH

DEPARTMENT OF NATURAL RESOURCES DIVISION OF OIL, GAS AND MINING

## **DESIGNATION OF AGENT OR OPERATOR**

The undersigned is, on LEASE NAME:	record, the holder of oil and gas lease  Tribal Tract 23			CEIVED B 2 2 2012
LEASE NUMBER:	Tribal No. 14-20-603-270			
and hereby designates			DIV. OF O	IL, GAS & MINING
NAME:	Navajo Nation Oil & Gas CO., Inc			
ADDRESS:	1675 Broadway, Suite 110 <i>0</i>			
	city Denver	state CO	zip 80202	
			•	

as his (check one) agent  $\square$  / operator  $\square$ , with full authority to act in his behalf in complying with the terms of the lease and regulations applicable thereto and on whom the Division Director or Authorized Agent may serve written or oral instructions in securing compliance with the Oil and Gas Conservation General Rules and Procedural Rules of the Board of Oil, Gas and Mining of the State of Utah with respect to:

(Describe acreage to needed.)	which this designation is applicable	e. Identify each oil and gas well by API number and name. Attach additional pages as
Oil Well	API Number	Entity Number
Navajo Tr 23 -1 Tohonadla 1-E	43-037-15540 43-037-50006	6230 6230
Bond :	-RLB 00067.12	

It is understood that this designation of agent/operator does not relieve the lessee of responsibility for compliance with the terms of the lease and the Oil and Gas Conservation General Rules and Procedural Rules of the Board of Oil, Gas and Mining of the State of Utah. It is also understood that this designation of agent or operator does not constitute an assignment of any interest in the lease.

In case of default on the part of the designated agent/operator, the lessee will make full and prompt compliance with all rules, lease terms or orders of the Board of Oil, Gas and Mining of the State of Utah or its authorized representative.

The lessee agrees to promptly notify the Division Director or Authorized Agent of any change in this designation.

Effec	ctive Date	of Designation: 01/01/2012					
BY:	(Name)	Sallie S. Tippie	OF:	(Company)	Genesis ST O	perating LLC	
	(Signature)	Sallo S. Sopie		(Address)		Street, Suite 2100	
	(Title)	Managing Partner			city Denver		
	(Phone)	(303) 296-1908 APPROVED _			state CO	<sub>zip</sub> 80264	
(5/2000)	)	Carlene	Kussell				

Division of Oil, Gas and Mining Earlene Russell, Engineering Technician

## Division of Oil, Gas and Mining OPERATOR CHANGE WORKSHEET (for state use only)

ROUTING
CDW

X - Change of Operator (Well Sold)		Operator Name Change/Merger							
The operator of the well(s) listed below has cha	nged, effec	8/1/2010							
FROM: (Old Operator):		TO: (New O	perator):						
N2550- Navajo Oil & Gas Cp.		N3930- NNO	GC Explorat	ion & Production	ı, LLC				
1625 Broadway, Suite 1100			1625 Broadwa	y, Suite 100	0				
Denver, CO 80202			Denver, CO 80	)202					
Phone: 1 (303) 534-8300			Phone: 1 (303)						
CA No.			Unit:	N/A	T	1			
WELL NAME	SEC TV	VN	API NO	ENTITY	LEASE	WELL	WELL		
G. Aug lad I in	RNG			NO	TYPE	TYPE	STATUS		
See Attached List	<u> </u>		1		<u> </u>				
OPERATOR CHANGES DOCUMENT Enter date after each listed item is completed  1. (R649-8-10) Sundry or legal documentation was 2. (R649-8-10) Sundry or legal documentation was 3. The new company was checked on the Depard 4a. Is the new operator registered in the State of 5a. (R649-9-2) Waste Management Plan has been a 5b. Inspections of LA PA state/fee well sites com 5c. Reports current for Production/Disposition & 6. Federal and Indian Lease Wells: The B or operator change for all wells listed on Federal 7. Federal and Indian Units:  The BLM or BIA has approved the successed 8. Federal and Indian Communization A The BLM or BIA has approved the operator 9. Underground Injection Control ("UIC Inject, for the enhanced/secondary recovery to DATA ENTRY:  1. Changes entered in the Oil and Gas Databas	vas receive vas receive tment of C Utah: received or plete on: Sundries o LM and or eral or India or of unit o greement r for all we ") Division unit/project	d from the Commercent:  on: the BIA an leases perator for the Commercent in the Comm	ne NEW operators, provided the NEW operators, provided the New American Street Street, provided the New American Street, provided the New Amer	or on: Corporation ber: e merger, na BLM n: Corm 5 Tran	8399948-0165  ame change,  8/1/2010  N/A  nsfer of Author	BIA	<u>12/31/2012</u> 		
<ol> <li>Changes entered in the Oil and Gas Databas</li> <li>Changes have been entered on the Monthly O</li> </ol>		Change S	12/31/2102 Spread Sheet on	<u>-</u> ::	12/31/2012	_			
3. Bond information entered in RBDMS on:			12/31/2012	_					
4. Fee/State wells attached to bond in RBDMS of			12/31/2012	_					
5. Injection Projects to new operator in RBDMS			12/31/2012	<b>-</b>	_				
6. Receipt of Acceptance of Drilling Procedures	for APD/N	New on:		12/31/2012	<u>2</u>				
BOND VERIFICATION:									
1. Federal well(s) covered by Bond Number:			N/A	_					
2. Indian well(s) covered by Bond Number:			RLB0006712	_					
3a. (R649-3-1) The <b>NEW</b> operator of any state/	fee well(s)	listed co	vered by Bond l	Number	N/A	_			
3b. The <b>FORMER</b> operator has requested a release	se of liabil	lity from	their bond on:	N/A					
LEASE INTEREST OWNER NOTIFIC	CATION	T <b>:</b>			_				
4. (R649-2-10) The <b>NEW</b> operator of the fee wel			ed and informed	by a letter fi	rom the Division				
of their responsibility to notify all interest own				N/A					
COMMENTS:									

## Navajo Nations Oil Gas Co. (N2550) to NNOGC Exploration Production, LLC (N3930) Effective 8/1/2012

			İ				Well	Well
Well Name	Sec	TWP	RNG	API	Entity	Lease	Туре	Status
TOHONADLA 26-OSCAR	26			4303750022			OW	APD
TOHONADLA 35-F	35			4303750024		Indian	ow	APD
TOHONADLA 2-G	02			4303750027		Indian	OW	APD
TOHONADLA 2-B	02			4303750028		Indian	OW	APD
TOHONADLA 1-C	01			4303750029		Indian	OW	APD
TOHONADLA 2-BRAVO	02			4303750030		Indian	ow	APD
TOHONADLA 1-F	01			4303750031		Indian	OW	APD
TOHONADLA 2-H	02			4303750032		Indian	OW	APD
TOHONADLA 1-Delta	01			4303750033		Indian	OW	APD
TOHONADLA 35-INDIGO	35			4303750034		Indian	ow	APD
TOHONADLA 35-J	35			4303750035		Indian	OW	APD
UTE CANYON 25G-O	25			4303731913		Indian	OW	DRL
TOHONADLA 35-B	35			4303750023				DRL
UTE CYN 23-INDIGO	23			4303731880		Indian		LA
TOHONADLA 35-P	35	410S	210E	4303731886		Indian	OW	LA
TOHONADLA 1-E	01	420S	210E	4303731887		Indian	OW	LA
TOHONADLA 1-D	01	420S	210E	4303731888		Indian	OW	LA
TOHONADLA 26-O	26	410S	210E	4303731896		Indian	OW	LA
UTE CYN 23-INDIGO	23	410S	210E	4303731911		Indian	OW	LA
NAVAJO TR 23-1	02	420S	210E	4303715540	6230	Indian	OW	P
DESERT CREEK 2	35	410S	230E	4303715868	6270	Indian	OW	P
TOHONADLA 1	35			4303715872				P
TOHONADLA 23-35	35	410S	210E	4303715874	11202	Indian	OW	P
NAVAJO TRIBAL 23-13	13	400S	240E	4303730971	9420	Indian	OW	P
NAVAJO TRIBAL 14-10	10	400S	240E	4303730977	10130	Indian	OW	P
SAHGZIE 1	05	420S	240E	4303731472	11032	Indian	OW	P
ANASAZI 1	05	420S	240E	4303731478	11042	Indian	OW	P
CAJON MESA 8D-1	08	400S	250E	4303731497	11074	Indian	OW	P
MONUMENT 8N-2	08	400S	250E	4303731509	11087	Indian	OW	P
RUNWAY 10G-1	10	400S	250E	4303731515	11105	Indian	OW	P
LONE MOUNTAIN CREEK 12F-1	12	420S	240E	4303731545	11148	Indian	OW	P
RUNWAY 10E-2	10			4303731550				P
BLUE HOGAN 1J-1	01	420S	230E	4303731562	11161	Indian		P
TOHONADLA 2-35	35	410S	210E	4303731568	11202	Indian	OW	P
ANASAZI 5L-3	05	420S	240E	4303731572	11207	Indian	OW	P
BROWN HOGAN 1A-2	01			4303731573				P
MULE 31K (N)	31			4303731617				P
BURRO 31I	31	410S	240E	4303731708	11496	Indian	OW	P
MULE 31M	31			4303731710			OW	P
ANASAZI 6H-1	06			4303731744			OW	P
TOHONADLA 35-P	35			4303750005			OW	P
TOHONADLA 1-E	01			4303750006				P
NAVAJO TRIBAL 41-2	02			4303731041				PA
MONUMENT 17E-2	17			4303731547				S
RUNWAY 10C-5A	10			4303731597				S
UTE CYN 23-P	23	410S	210E	4303731881	17282	Indian	OW	S

### NAVAJO NATION OIL & GAS COMPANY

### **EXPLORATION & PRODUCTION LLC**

1675 Broadway, Suite 1100 • Denver, Colorado • 80202

Telephone (303) 534-8300 • FAX (303) 534-1405



September 18, 2012

Utah Division of Oil, Gas and Mining c/o Rachel Medina 1594 West North Temple, Suite 1210 Salt Lake City, Utah 84114-5801

RECEIVED SEP 1 9 2012

RE: Change of Operator Name and Address for Wells

DIV. OF OIL, GAS & MINING

Dear Rachel.

I am including with this letter several original FORM 9 to change the operator on wells. This probably will be done in two steps.

- 1. (16 wells) Change of Operator from RIM Southwest Corporation to Navajo Nation Oil & Gas Co.
- 2. (Same 16 wells) Change of Operator from Navajo Nation Oil & Gas Co. to NNOGC Exploration and Production, LLC.

We have recently registered our LLC with the State of Utah. The Utah Entity Number for NNOGC Exploration and Production, LLC is: 8399948-0165. Also, a new DOGM No. has been applied for for the LLC.

The name and address change is as follows:

OLD: Navajo Nation Oil & Gas Co.

1675 Broadway, Suite 1100

Denver, CO 80202

(DOGM Operator No. N2550)

NEW: NNOGC Exploration and Production, LLC

1625 Broadway, Suite 1000

Denver, CO 80202

Should you require any additional information please contact me at 303-534-8300.

Sincerely,

Katie Hynes

Associate Landman

Katil Hynor

This space for State use only)	DEC	3 1 2012	RECEIVED
SIGNATURE XULLI	Terminary APPF	ROVED 4/14/	/2
NAME (PLEASE PRINT) Lauren C	Serminario	Land Manage	r
Effective Jul	4 10,3010		
•	Bond No. RL	-B0006712	÷
The new Entity is:	NNOGC Explorati 1625 Broadway, S Denver, CO 8020	^^	n No.: <u>3930</u>
-	for the LLC is: 8399948-0165.		
The Navajo Nation Oil at change applies to all we	nd Gas Co. has registered its new list currently operated by DOGN N	entity with the State of Utah.	
	CONVERT WELL TYPE	RECOMPLETE - DIFFERENT FORMATI	
Date of work completion:	CHANGE WELL STATUS  COMMINGLE PRODUCING FORMATIONS	PRODUCTION (START/RESUME)  RECLAMATION OF WELL SITE	WATER SHUT-OFF OTHER:
SUBSEQUENT REPORT (Submit Original Form Only)	CHANGE TUBING CHANGE WELL NAME	PLUG BACK	WATER DISPOSAL
	CHANGE TO PREVIOUS PLANS	OPERATOR CHANGE PLUG AND ABANDON	TUBING REPAIR  VENT OR FLARE
(Submit in Duplicate)  Approximate date work will start:	ALTER CASING CASING REPAIR	FRACTURE TREAT  NEW CONSTRUCTION	SIDETRACK TO REPAIR WELL  TEMPORARILY ABANDON
NOTICE OF INTENT	ACIDIZE	DEEPEN DEEPEN	REPERFORATE CURRENT FORMATION
11. CHECK APP	PROPRIATE BOXES TO INDICA	TE NATURE OF NOTICE, REI	PORT, OR OTHER DATA
QTR/QTR, SECTION, TOWNSHIP, RA			UTAH
FOOTAGES AT SURFACE: See			COUNTY: San Juan
1675 Broadway, Suite 1100 C	Denver STATE CO ZIF	80202 (303) 534-8300	various
Navajo Nation Oil & Gas		PHONE NUMBER:	10. FIELD AND POOL, OR WILDCAT:  Various
2. NAME OF OPERATOR:	00		9. API NUMBER: Various
1. TYPE OF WELL OIL WELL		ionnio odon proposato.	WELL NAME and NUMBER:     See Attached
Do not use this form for proposals to dril	I new wells, significantly deepen existing wells below cu I laterals. Use APPLICATION FOR PERMIT TO DRILL	rrent bottom-hole depth. reenter plugged wells, or form for such proposals	7. UNIT or CA AGREEMENT NAME:
SUNDR	Y NOTICES AND REPORT	S ON WELLS	6. IF INDIAN, ALLOTTEE OR TRIBE NAME: Navajo Nation
	DIVISION OF OIL, GAS AND M		5. LEASE DESIGNATION AND SERIAL NUMBER: See Sttached
	STATE OF UTAH DEPARTMENT OF NATURAL RESOU	RCES	

BY: Rachel Medina (See Instructions on Reverse Side)

DIV. OIL GAS & MINING .

DIV. OF OIL, GAS & MINING

SEP 1 7 2012

## STATE OF UTAH DEPARTMENT OF NATURAL RESOURCES

		DIVISION OF OIL,	GAS AND M	ININ	G		1 -	ASE DESIGNATION AND SERIAL NUMBER:
	SUNDRY	Y NOTICES AND	REPORT	s o	N WEL	LS		ndian, allottee or tribe name: vajo Nation
Do	not use this form for proposals to drill r drill horizontal l	new wells, significantly deepen e	existing wells below co	irrent bo	ottom-hole dep	th, reenter plugged wells, or to	7. UN	T or CA AGREEMENT NAME:
	YPE OF WELL OIL WELL			10111710	duoi, proposs		8. WE	ELL NAME and NUMBER:
	AME OF OPERATOR:	Co						NUMBER:
	avajo Nation Oil & Gas (	<u> </u>				PHONE NUMBER:		ELD AND POOL, OR WILDCAT:
P.C	). Box 5069 <sub>CIT</sub>	Y Window Rock	STATE AZ	<sub>3</sub> 865	15	(303) 534-8300	Va	rious
	OCATION OF WELL OOTAGES AT SURFACE:						COUN	ту: San Juan
Q.	TR/QTR, SECTION, TOWNSHIP, RAN	√GE, MERIDIAN:					STATE	: UTAH
11.	CHECK APPI	ROPRIATE BOXES	TO INDICA	TE N	ATURE	OF NOTICE, REF	ORT, C	R OTHER DATA
	TYPE OF SUBMISSION				T	YPE OF ACTION		
	NOTICE OF INTENT	ACIDIZE			DEEPEN			REPERFORATE CURRENT FORMATION
	(Submit in Duplicate)	ALTER CASING			FRACTURE	TREAT		SIDETRACK TO REPAIR WELL
	Approximate date work will start:	CASING REPAIR			NEW CONS			TEMPORARILY ABANDON
		CHANGE TO PREVIOU	JS PLANS	<u></u>	OPERATOR			TUBING REPAIR
<b>17</b> 1	OURSES VENT DEDORT	CHANGE TUBING			PLUG AND A			VENT OR FLARE
Z	SUBSEQUENT REPORT (Submit Original Form Only)	CHANGE WELL NAME			PLUG BACK			WATER DISPOSAL
	Date of work completion:	CHANGE WELL STATE				ON (START/RESUME)	닏	WATER SHUT-OFF
		COMMINGLE PRODUC				ON OF WELL SITE		OTHER:
		CONVERT WELL TYPE		<u> </u>		TE - DIFFERENT FORMATIC		
12.	DESCRIBE PROPOSED OR CO	OMPLETED OPERATIONS.	Clearly show all	pertine	nt details inc	cluding dates, depths, volu	umes, etc.	
to a	e Navajo Nation Oil & G all the wells that have re 550)							and address change applies & Gas Co. (DOGM No.
The	e Utah Entity Number fo	or the LLC is: 8399	948-0165					
No	te: A new DOGM No.	, has been applied fo	or NNOGC E	xplor	ation and	d Production, LLC		
Ple	ease see the attached li	st of wells that will r	now be opera	ted b	y:	NNOGC Explora 1625 Broadway, Denver, CO 802	Suite 10	Production, LLC 00
All	of these wells are cove	red by Bond No. RL	.B0006712					
E£	fective: Aug	1,3012		· · · · · · · · · · · · · · · · · · ·	· · · · · · · · · · · · · · · · · · ·			
NAME	(PLEASE PRIMI) Lauren Ge	rminario			TITLE	Land Manager		The contribution of the co
		kuminaw	-		DATE	9/18/2012		
This sp	ace for State use only)	PROVED	<u> </u>					proeiveo

DIV. OIL GAS & MINING BY: Rachel Medina SEP 1 C 2002

### OF UTAH AMENDED REPORT ... FORM 8 DEPARTMENT OF NATURAL RESOURCES (highlight changes) 5. LEASE DESIGNATION AND SERIAL NUMBER: DIVISION OF OIL, GAS AND MINING 14-20-603-270 6. IF INDIAN, ALLOTTEE OR TRIBE NAME WELL COMPLETION OR RECOMPLETION REPORT AND LOG Navaio 7. UNIT or CA AGREEMENT NAME 1a. TYPE OF WELL: GAS OIL V OTHER DRY 8. WELL NAME and NUMBER: b. TYPE OF WORK: DIFF. RESVR. Tohonadla 1-E RE-ENTRY OTHER 9. API NUMBER: 2. NAME OF OPERATOR: 4303750006 Navaio Nation Oil & Gas Company 10 FIELD AND POOL, OR WILDCAT PHONE NUMBER: 3. ADDRESS OF OPERATOR: (303) 534-8300 Tohonadla P.O. Box 4439 CITY Window Rock STATE AZ ZIP 86515 11. QTR/QTR, SECTION, TOWNSHIP, RANGE, MERIDIAN: 4. LOCATION OF WELL (FOOTAGES) AT SURFACE: 2081' FNL 417' FWL SWNW 1 42S 21E AT TOP PRODUCING INTERVAL REPORTED BELOW: 12. COUNTY 13. STATE UTAH AT TOTAL DEPTH: San Juan 17. ELEVATIONS (DF, RKB, RT, GL): 14. DATE SPUDDED: 15. DATE T.D. REACHED: 16. DATE COMPLETED: READY TO PRODUCE 🗸 ABANDONED 4695'KB&DF.4683'GL 9/27/2010 3/4/2011 9/16/2010 21. DEPTH BRIDGE <sup>MD</sup> 5.080 19. PLUG BACK T.D.: MD 5,895 20. IF MULTIPLE COMPLETIONS, HOW MANY? 18. TOTAL DEPTH: 5.913 TVD 22. TYPE ELECTRIC AND OTHER MECHANICAL LOGS RUN (Submit copy of each) NO 🗸 WAS WELL CORED? YES (Submit analysis) CBL/GR. APS/Sonic WAS DST RUN? NO 🗸 YES (Submit report) DIRECTIONAL SURVEY? NO 🗸 YES (Submit copy) 24. CASING AND LINER RECORD (Report all strings set in well) STAGE CEMENTER DEPTH CEMENT TYPE & SLURRY CEMENT TOP \*\* AMOUNT PULLED TOP (MD) BOTTOM (MD) HOLE SIZE SIZE/GRADE WEIGHT (#/ft.) NO. OF SACKS VOLUME (BBL) 470 15' KB 0 1,427 prb 12 1/4" 8 5/8 J-55 24 G 150 1480' KB 4.882 G 5.913 200 7 7/8" 5 1/2 J-55 17 0 956 Light G 50 25. TUBING RECORD DEPTH SET (MD) PACKER SET (MD) PACKER SET (MD) SIZE SIZE DEPTH SET (MD) PACKER SET (MD) SIZE DEPTH SET (MD) 2 7/8 4.887 4,887 26. PRODUCING INTERVALS 27. PERFORATION RECORD SMY PERFORATION STATUS BOTTOM (TVD) INTERVAL (Top/Bot - MD) SIZE NO. HOLES TOP (TVD) FORMATION NAME TOP (MD) BOTTOM (MD) Open Squeezed see attached (A) Squeezed (B) Open Saueezed (C) Squeezed (D) 28. ACID, FRACTURE, TREATMENT, CEMENT SQUEEZE, ETC.

28. ACID, FRACTURE, IREATMENT, CEMENT SQUEEZE, ETC.

SUNDRY NOTICE FOR PLUGGING AND CEMENT VERIFICATION

DEPTH INTERVAL

See attached

30. WELL STATUS:

29. ENCLOSED ATTACHMENTS:

☐ ELECTRICAL/MECHANICAL LOGS ☐ GEOLOGIC REPORT

CORE ANALYSIS

DST REPORT DIRECTIONAL SURVEY

OTHER:

DECENTER

(CONTINUED ON BACK)

APR 07 2011

31INITIAL PRO	DUCTION					INT	ERVAL A (As sho	wn in item #26)					
3/4/2011	ODUCED:	Т	EST DATE:			HOURS TESTED	):	TEST PRODUCTIO RATES: →	N OI	IL – BBL:	GAS - MCF:	WATER - BBL:	PROD. METHOD:
CHOKE SIZE:	TBG. PRES	SS. C	SG. PRESS	. API GRA	AVITY	BTU - GAS	GAS/OIL RATIO	24 HR PRODUCTION RATES: →		IL – BBL:	GAS - MCF:	WATER – BBL:	INTERVAL STATUS:
					_	INT	ERVAL B (As sho	wn in item #26)	_	-			
DATE FIRST PR	ODUCED:	Т	EST DATE:			HOURS TESTED	<b>)</b> ;	TEST PRODUCTIO RATES: →	N O	IL – BBL:	GAS - MCF:	WATER - BBL:	PROD. METHOD:
CHOKE SIZE:	TBG. PRES	ss. c	SG. PRESS	. API GRA	AVITY	BTU – GAS	GAS/OIL RATIO	24 HR PRODUCTION RATES: →	ON O	IL – BBL:	GAS - MCF:	WATER - BBL:	INTERVAL STATUS:
				•		INT	ERVAL C (As sho	wn in item #26)					
DATE FIRST PR	ODUCED:	Т	EST DATE:			HOURS TESTED	):	TEST PRODUCTIO RATES: →	N O	IL BBL:	GAS - MCF:	WATER – BBL:	PROD. METHOD:
CHOKE SIZE:	TBG. PRES	SS. C	SG. PRESS	. API GRA	AVITY	BTU – GAS	GAS/OIL RATIO	24 HR PRODUCTION RATES: →	ON O	IL – BBL:	GAS MCF:	WATER - BBL:	INTERVAL STATUS:
						INT	ERVAL D (As sho	wn in item #26)					
DATE FIRST PR	ODUCED:	Т	EST DATE:			HOURS TESTED		TEST PRODUCTIO	N O	IL – BBL:	GAS - MCF:	WATER – BBL:	PROD. METHOD:
CHOKE SIZE:	TBG. PRES	SS. C	SG. PRESS	. API GRA	AVITY	BTU ~ GAS	GAS/OIL RATIO	24 HR PRODUCTION RATES: →	O NC	IL – BBL:	GAS - MCF:	WATER - 8BL:	INTERVAL STATUS:
32. DISPOSITIO	N OF GAS (	Sold, Us	sed for Fuel,	Vented, Etc	.)	<u></u>	•						
33. SUMMARY	OF POROUS	ZONES	(Include A	quifers):		<del></del>			34. F	ORMATION	(Log) MARKERS:		
Show all importantested, cushion u	nt zones of po sed, time too	orosity a Il open, f	ind contents lowing and s	thereof: Core hut-in pressu	d interva	als and all drill-stem recoveries.	i tests, including de	epth interval					
Formation	on -	To (M		Bottom (MD)		Descrip	tions, Contents, etc	<b>).</b>			Name		Top (Measured Depth)
Upper Ism	av	4.9	34	4,970									
Lower Ism				5,060									
U. Desert	-			5,126									
Akah		5,4		5,478									
U. Barker	Creek			5,540									
M. Barker			1	5,658									
Pinkerton				5,722					1				
L. Barker (				5,758									
35. ADDITIONA	L REMARKS	i (includ	e plugging	procedure)									
3/17/2011	: 130 B	O, 3 E	3W, 23	5 psi tub	ing, 1	2/64" AC, 2	24 hrs						
								from all available re	ecords	s.			
NAME (PLEAS	E PRINT)	<u> </u>	). Zi	or			<u>,</u> ,		25,	/Eng	Mana	ager	
SIGNATURE _	4	Sie	<u> </u>				<del> </del>	_ DATE	3~2	24-11			

This report must be submitted within 30 days of

- completing or plugging a new well
- drilling horizontal laterals from an existing well bore
- recompleting to a different producing formation
- reentering a previously plugged and abandoned well
- significantly deepening an existing well bore below the previous bottom-hole depth
- drilling hydrocarbon exploratory holes, such as core samples and stratigraphic tests
- \* ITEM 20: Show the number of completions if production is measured separately from two or more formations.
- \*\* ITEM 24: Cement Top Show how reported top(s) of cement were determined (circulated (CIR), calculated (CAL), cement bond log (CBL), temperature survey (TS)).

Send to: Utah Division of Oil, Gas and Mining

1594 West North Temple, Suite 1210

Box 145801

Salt Lake City, Utah 84114-5801

Phone: 801-538-5340

Fax: 801-359-3940

Tohonadia 1-E Testing Results

Spud: 16 Sep 2010	Rig Release: 1 Oct 2010		_											
	Completion Start: 13 Dec 2010	Final Report: 4	Mar 2011	On Production	: 4 Mar 201	.1								
KB: 4695 ft	GL: 4683 ft									,				1
					swab result							esuits (+/-72 hrs)		
Perforated Zone	Stimulation	Date		ВО	BSW	BLW			Swab runs			P extrapolated		Comments
5753' - 5758'	1000 gal. 15% HCl @ 1.5 bpm &	12/14/2010		40				0'-NR	14		1860	2250	0.304	prior to acid job
L. Barker Creek	3000 psi w/bio balls, good ball	12/15/2010	250	50				00'-NR	17		ŀ	ł		oil & FL prior to acid job
	action	12/16/2010	125	43		:	20 18	00'-NR	5?	1	ŀ	•		swab & flow 6-8 BO/hr
		12/17/2010	100	38			22	20'-5663'	5					Run pressure gauges
		12/20/2010	NR	82			NR	₹	7					7 BLW LTR, pull gauges
		12/21/2010	60	36			28	00'-NR	3		i			swab & flow 6 hrs
Total				289	0						l	l		
5714' - 5722'	1000 gal. 15% HCl @ 1.5 bpm &	12/23/2010	140	27			37 NR	₹	12	5631	1740	1800	0.342	5 swab runs, 21 BO prior to acid
Pinkerton Trail	3601 psi	12/24/2010					1							Flow well, Run pressure gauges
		12/27/2010		72						!				Pull gauges, Flow well 7 hrs, no pressures
		12/28/2010		55			İ			1		l		
Total	-	11,10,1010		154										
5652' - 5658'	1000 gal. 15% HCl @ 2.3 bpm &	1/3/2011				$\vdash$	1		1	5576	1696	1820	0.319	no fluid entry prior to acid job
M. Barker Creek	3100 psi w/bio balls	1/4/2011	ا ا	30		1	68 0'-	.NR	11					11th run 100% oil, 15 BLW left to recover
IVI. DBIKEI CICEK	3100 psi 4/510 54115	1/5/2011	400	93		1	NE		4					
	i l	1/6/2011		80		ļ	1	, 300'-NR			į.	1	ļ	1
	]	1/7/2011	375	35			100	300 -WK	"	1				Flow 2 hrs, run gauges
		1/10/2011	350	33		l								pull gauges
		1/10/2011	330	220	0		+-		<del></del>					pull gauges
Total	15001 159/1101 @ 2.15/	1/12/2014	<del> </del>	238			67 NF	h	9	5518	1626	1700	0.22	90% oil by 9th run
5636' - 5642'	1500 gal. 15% HCl @ 2.15 bpm &	1/12/2011				1			9	5518	1626	1,00	0.32	swab & flow
5618' - 5624'	2100 psi w/144 bio balls	1/13/2011		116			NF	R	-	'				
5606' - 5612'		1/14/2011		35	i	ļ								flowed 2 hrs, run pressure gauges
M. Barker Creek		1/17/2011	400			<u> </u>								pull pressure gauges
Total .			ļ	181			_		<u> </u>	<del>                                     </del>				
5570' - 5578'	]	1/18/2011		20			25 NF	R	3	5486	1618	1780	0.333	started flowing after 3 swab runs
M. Barker Creek		1/19/2011									1			flowed 9 hrs
	1	1/20/2011												flowed 9 hrs
		1/21/2011			ł				1			1	1	flow 2 hrs, run pressure gauges
		1/24/2011	300			<u> </u>								pull pressure gauges
Total				293								<u> </u>		
5532' - 5540'	1000 gal. 15% HCl @ 1.7 bpm &	1/25/2011				i	70 N		8	5455	1630	9	0.338	100% oil on last run, 20.5 BLW LTR
U. Barker Creek	3200 psi w/bio balls	1/26/2011					NE		7	'				Flowed & swabbed 9 hrs
	[	1/27/2011	. 290	70	4	Į.	NE	R	1	4	1	1		Flow & swab 6 hrs, run pressure gauges
		1/31/2011	L			<u> </u>								pull pressure gauges
Total				288										
5470' - 5478'	1000 gal. 15% HCl @ 1.1 bpm &	2/1/2011	L.				40		4	1	i			Swabbed dry, no fluid entry
Akah	3300 psi	L	1											
5216' - 5226'	1000 gal. 15% HCl @ 1.5 bpm &	2/2/2011		3		1	30 N	R	1	7				last 2 runs 100% oil
M. Desert Creek	3900 psi	2/3/2011	300	120			30 NI	R	6	5	1	1		After 4th run started flowing 100% oil
1	· .	2/4/2011				1			1		I	1		Flow 6 hrs, run pressure gauges
		2/7/2011		, ,			24				1			Pull gauges, BP failed pressure test
1	Į.	2/8/2013		1	1		1.5			1	1	1	1	swabbed dry
Total		, ,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	1	219	) (		5.5							
5108' - 5115'	1000 gal. 15% HCl @ 3.1 bpm &	2/10/2013	1			ΤŤ	48 N	R	-	7 5042	2 756	5		swab f/seating nipple
5119' - 5126'	4145 psi w/bio balls	2/11/201			1		5 N				1	1		make hourly runs f/seating nipple
U. Desert Creek	1.2.5 par 17,510 50113	2/11/201			1	1	5 N			1		1		swab down in 3 runs, make hourly runs
o. Describer		2/15/2013			1		J			- 1	1	1		run pressure gauges
	1	2/13/201:			1		1.	••	1	1		1	1	pull pressure gauges
Total		2/11/201	300	4;	,	+-	-		+	1	<del>                                     </del>			Paris Prancis of Banders
5022' - 5028'	1500 gal. 15% HCl @ 2 bpm &	2/21/201:	1	187		+-	42 N	D	+	5 498	7 1594	1	<del> </del>	swab 1.5 hrs, flow 3.5 hrs
						1	-2 N		} '	7 790	'   159°	1	1	Flow 8 hrs, FTP 100 psi
5035' - 5060'	2800 psi w/bio balls, max rate 4.7				- 1								1	Flow 2 hrs, run pressure gauges
Lower Ismay	bpm, ISIP 1000 psi, 3 min SIP	2/23/201:		6:	<u>'</u>	1							1	
	vacuum	2/25/201	4	<del> </del>		+-	-		+	-	+	-		Pull pressure gauges
Total	<u> </u>			74		+-					<del>                                     </del>	1	+	1
4960' - 4970'	1500 gal. 15% HCl @ 2 bpm &	2/28/201			1	1	25 N			6			1	swab to SN, 6 hrs, recover 1 BO per hour
4934' - 4942'	3190 psi w/bio balls, ISIP 2580 psi,			1	1		42 N			7	1		1	1 01 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
Upper Ismay	15 min 2420 psi	3/2/201	1 60			+	40	680' - NR	-	-			-	swab 8 hrs, starting FL 200' above SN
Total	<u> </u>	L		2	4					1		1		

<sup>\* 2</sup>nd Acid job w/diversion

RBP at 5080' R3 Production packer @ 4887'

NR - Not reported, SFL - starting fluid level, LTR - left to recover

DIVISION OF OIL, GAS AND MINING	5. LEASE DESIGNATION AND SERIAL NUMBER: 14-20-603-270
SUNDRY NOTICES AND REPORTS ON WELLS	6. IF INDIAN, ALLOTTEE OR TRIBE NAME: Navajo
Do not use this form for proposals to drill new wells, significantly deepen existing wells below current bottom-hole depth, reenter plugged wells, or to drill horizontal laterals. Use APPLICATION FOR PERMIT TO DRILL form for such proposals.	7. UNIT or CA AGREEMENT NAME: n/a
1. TYPE OF WELL OIL WELL GAS WELL OTHER	8. WELL NAME and NUMBER: Tohonadla 1-E
2. NAME OF OPERATOR:	9. API NUMBER: 4303750006
Navajo Nation Oil & Gas Company  3. ADDRESS OF OPERATOR: PHONE NUMBER:	10. FIELD AND POOL, OR WILDCAT:
P.O. Box 4439 CITY Window Rock STATE AZ ZIP 86515 (303) 534-8300	Tohonadla
4. LOCATION OF WELL FOOTAGES AT SURFACE: 2081' FNL 417' FWL	county: San Juan
QTR/QTR, SECTION, TOWNSHIP, RANGE, MERIDIAN: SWNW 1 41S 21E	STATE: UTAH
11. CHECK APPROPRIATE BOXES TO INDICATE NATURE OF NOTICE, REPO	
TYPE OF SUBMISSION TYPE OF ACTION	
NOTICE OF INTENT	REPERFORATE CURRENT FORMATION
(Submit in Duplicate)  ALTER CASING  FRACTURE TREAT	SIDETRACK TO REPAIR WELL
Approximate date work will start: CASING REPAIR NEW CONSTRUCTION	TEMPORARILY ABANDON
CHANGE TO PREVIOUS PLANS OPERATOR CHANGE	TUBING REPAIR
CHANGE TUBING PLUG AND ABANDON  SUBSEQUENT REPORT CHANGE WELL NAME PLUG BACK	VENT OR FLARE  WATER DISPOSAL
(Submit Original Form Only)	WATER SHUT-OFF
Date of work completion:  CHANGE WELL STATUS  PRODUCTION (START/RESUME)  COMMINGLE PRODUCING FORMATIONS  RECLAMATION OF WELL SITE	OTHER:
CONVERT WELL TYPE RECOMPLETE - DIFFERENT FORMATION	Ulner.
12. DESCRIBE PROPOSED OR COMPLETED OPERATIONS. Clearly show all pertinent details including dates, depths, volume	nes, etc.
Date of first production 3/4/2011	
Producing from the Lower Ismay formation.	
Production test 3/17/2011: 130 BO, 3 BW, 235 psi tubing, 12/64" AC, 24 hrs	
Production test 5/17/2011. 150 BO, 5 BW, 255 psi tubing, 12/04 AO, 24 ins	
NAME (PLEASE PRINT) A. D. Zier TITLE Ops/Eng/	Managar
NAME (PLEASE PRINT) A. D. Zier TITLE Ops/Eng/ SIGNATURE DATE 3-24-11	V

(This space for State use only)

RECEIVED
APR 07 2011

REPORT OF V	<b>NATER ENC.</b>	OUNTERED	DURING	DRILLIN	1G

Well name and		onadla 1-E			_
API number: 4	303750006				
Well Location:	QQ <u>SENW</u> Sec	ction <u>1</u>	Fownship <u>42S</u> Range <u>2</u>	21W Coun	ty San Juan
Well operator:	Navajo Nation	Oil & Gas C	ompany		
Address:	P.O. Box 4439	9			
	city Window R	ock	state AZ zip 86515	Pho	ne: <u>(303) 534-8300</u>
Drilling contrac	tor: Bearcat D	rilling			
Address:	P.O. Box 717				
	city Farmingto	n	state NM zip 87499	Pho	ne: (505) 327-5218
Water encount	ered (attach ad	lditional page	es as needed):		
Γ	DEP	TH	VOLUME		QUALITY
-	FROM	то	(FLOW RATE OR HE	AD)	(FRESH OR SALTY)
					no water encountered
				·	
-					
. }-					
-					
}					
L					
Formation tops	: 1		2		3
(Top to Bottom)					
	7				
	10		11		12
					RECE
f an analysis h	as been made	of the water	encountered, please attac	h a copy of	the report to this form. APR
					DIV. OF OIL, (
-	-	-	te to the best of my knowledge		
NAME (PLEASE PRIN	n <u>4. D.</u>	tier		TITLE OF	13/Eng Managar 14-11
SIGNATURE	apper	<b>)</b>		DATE 3-2	24-11

	ENTITY ACTION	ON FORM
Operator:	NAVAJO NATION OIL & GAS COMPANY	Operator Account Number: N 2550
Address:	PO BOX 4439	operator recount realization.
	city WINDOW ROCK	<del></del>

state AZ zip 86515

Phone Number: (303) 534-8300

Well 1

API Number	Well Name		QQ	Sec	Twp	Rng	County	
4303750005	TOHONADLA 35-P	TOHONADLA 35-P		SESE 35 41S		21E	SAN JUAN	
Action Code	Current Entity Number	New Entity Number	Spud Date 8/29/2010		Entity Assignmer Effective Date			
Α	99999	17840			10/28/10			
Comments:	.bLL		81	12/10				

Well 2

API Number	Well	Vame	QQ Sec Twp		Rng	County	
4303750006	TOHONADLA 1-E	SWNW 1 42S		21E	SAN JUAN		
Action Code	Current Entity Number	New Entity Number	Spud Date		Entity Assignment Effective Date		
A	99999	17841	8/15/2010		10/28/10		

Well 3

API Number	Well !	QQ	Sec	Twp	Rng	County				
Action Code	Current Entity Number	New Entity Number	s	Spud Date			Spud Date		Entity Assignment Effective Date	
Comments:			<u> </u>	<del></del>						

## **ACTION CODES:**

- A Establish new entity for new well (single well only)
- B Add new well to existing entity (group or unit well)
- C Re-assign well from one existing entity to another existing entity
- D Re-assign well from one existing entity to a new entity
- E Other (Explain in 'comments' section)

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Title	Date
Operations Engineering Mgr	10/21/2010
Signature	
abres	
Name (Please Print)	
A. D. Zier	

(5/2000)

DIV. OF OIL, GAS & MINING

ENTITY ACTION FORM								
Genesis ST Operatin	g LLC	Operator Account Number: N 3600						
1660 Lincoln Street, S	Suite 2100							
city Denver								
state CO	zip 80264	Phone Number: (303) 296-1908						

Operator: Address:

API Number	Well	Name	QQ	Sec	Twp	Rng County			
4303750005	Tohonadla 35-P		SESE 35 41S			21E	SAN JUAN		
Action Code	Current Entity Number	New Entity Number	s	Spud Date		Entity Assignment Effective Date			
С	17840	11202	8	8/12/2010			1/1/2011		
Comments: CHAI	NGE TO MAKE ALL WE				-		1/1/2011 _4/23		

425 Well 2

API Number	Well Name QQ Sec Twp Rng Cou			QQ Sec Twp			County
4303750006	Tohonadla 1-E	ohonadla 1-E		SWNW 1 415		21E SAN JUAN	
Action Code	Current Entity Number	New Entity Number	S	Spud Date			ty Assignment ffective Date
С	17841	06230	8	8/15/2010			1/1/2011

CHANGE TO MAKE BOTH WELLS ON LEASE USE SAME ENTITY NUMBER

4/25/11

Well 3

API Number			QQ Sec Twp Spud Date			Rng County  Entity Assignment Effective Date	
Action Code							
comments:						<u> </u>	

### **ACTION CODES:**

- A Establish new entity for new well (single well only)
- **B** Add new well to existing entity (group or unit well)
- c Re-assign well from one existing entity to another existing entity
- D Re-assign well from one existing entity to
- E Other (Explain in 'comments' section)

)	aг	lew	er.	ши		-	-
	7	3 1			1	-	1
	rest.	-			W	L-	u

F	₹I	С	H	٩F	₹D	Α.	F	E	R	R	S

Title

Name-(Please Print)	$\overline{}$
Hickory A.	Lanni
Signature	1 1000

CHIEF OPERATIONS ENGINE 4/19/2011

Date

APR 2 5 2011



### Carol Daniels - Wolverine State 20-5 Update T 935 ROIW 5-20 43-041-50006

From:

"Wolverine Exploration Rig" <wolvexpl@drillmail.net>

To:

"'Daniels, Carol'" <caroldaniels@utah.gov>, "Doucet, Dustin" <dustindouc...

Date:

10/19/2011 7:04 AM

Subject: Wolverine State 20-5 Update

10/19/2011 7:02 AM

Wash and ream at 10860'.

**Tom Zupan Drilling Supervisor** Wolverine Gas and Oil Company of Utah, LLC Wolverine State 20-5, AFE 246 Rig (970) 361-3276 Cell (970) 314-8219 (no reception on this location) H2S Green Flag location Have a current H2S card and be clean shaven.

wolvexpl@drillmail.net

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DIV. OF OIL, GAS & MINING



## Carol Daniels - Wolverine State 20-5 Update

235 ROIW 5-20 43-041-50006

From:

"Wolverine Exploration Rig" < wolvexpl@drillmail.net>

To:

"'Daniels, Carol" <caroldaniels@utah.gov>, "Doucet, Dustin" <dustindouc...

Date:

10/20/2011 6:57 AM

Subject: Wolverine State 20-5 Update

10/20/2011 6:54 AM

Prep to make wiper trip from 12716'.

**Tom Zupan Drilling Supervisor** Wolverine Gas and Oil Company of Utah, LLC Wolverine State 20-5, AFE 246 Rig (970) 361-3276 Cell (970) 314-8219 (no reception on this location) **H2S Green Flag location** Have a current H2S card and be clean shaven.

wolvexpl@drillmail.net

**RECEIVED** OCT 2 0 2011

DIV. OF OIL, GAS & MINING

Sundry Number: 59937 API Well Number: 43037500060000 FEDERAL APPROVAL OF THIS ACTION IS NECESSARY

	STATE OF UTAH	_	FORM 9
	DEPARTMENT OF NATURAL RESOURCE DIVISION OF OIL, GAS, AND MINI		5.LEASE DESIGNATION AND SERIAL NUMBER: 14-20-603-270
SUNDR	6. IF INDIAN, ALLOTTEE OR TRIBE NAME: NAVAJO		
	oposals to drill new wells, significantly do reenter plugged wells, or to drill horizont n for such proposals.		7.UNIT or CA AGREEMENT NAME:
1. TYPE OF WELL Oil Well			8. WELL NAME and NUMBER: TOHONADLA 1-E
2. NAME OF OPERATOR: NNOGC EXPLORATION & PR	RODUCTION, LLC		<b>9. API NUMBER:</b> 43037500060000
3. ADDRESS OF OPERATOR: 1625 Broadway, Suite 1000		PHONE NUMBER: 803 910-9525 Ext	9. FIELD and POOL or WILDCAT: TOHONADLA
4. LOCATION OF WELL FOOTAGES AT SURFACE: 2081 FNL 0417 FWL			COUNTY: SAN JUAN
QTR/QTR, SECTION, TOWNSH Qtr/Qtr: SWNW Section:	HIP, RANGE, MERIDIAN: 01 Township: 42.0S Range: 21.0E Meridi	an: S	STATE: UTAH
11. CHEC	K APPROPRIATE BOXES TO INDICATE	NATURE OF NOTICE, REPOR	RT, OR OTHER DATA
TYPE OF SUBMISSION		TYPE OF ACTION	
Requesting to con Tohonadla 1-E we oil well has been of expected to continuate infras	CHANGE TO PREVIOUS PLANS  CHANGE WELL STATUS  DEEPEN  OPERATOR CHANGE  PRODUCTION START OR RESUME  REPERFORATE CURRENT FORMATION  TUBING REPAIR  WILDCAT WELL DETERMINATION  COMPLETED OPERATIONS. Clearly show all tinue venting the produced gall due to lack of sales infrastruventing since first production. The complete since in place for gather is sundry notice on 05/06/201	as from the acture. This Venting is proved and ring. *BLM  4.  Acture. This Uta Oil, of Oil, o	CASING REPAIR  CHANGE WELL NAME  CONVERT WELL TYPE  NEW CONSTRUCTION  PLUG BACK  RECOMPLETE DIFFERENT FORMATION  TEMPORARY ABANDON  WATER DISPOSAL  APD EXTENSION  OTHER: Vent  Depths, volumes, etc.  Cepted by the ah Division of Gas and Mining  DIVISION OF Gas and Mining
NAME (PLEASE PRINT)	PHONE NUMBE		
Racheal Dahozy  SIGNATURE N/A	928-871-4880	Regulatory Analyst  DATE 1/16/2015	

Sundry Number: 59937 API Well Number: 43037500060000



## The Utah Division of Oil, Gas, and Mining

- State of Utah
- Department of Natural Resources

**Electronic Permitting System - Sundry Notices** 

## Sundry Conditions of Approval Well Number 43037500060000

In accordance with rule R649-3-20, 1800 mcf/month of gas is allowed to be flared from a producing oil well without approval. Flaring in excess of that amount requires Board of Oil, Gas and Mining approval. Current amount flared (produced minus used on sight) is at or below the allowable amount.

RECEIVED: Apr. 14, 2015

Sundry Number: 59937 API Well Number: 43037500060000

Form 3160-5 (August 2007)

## UNITED STATES DEPARTMENT OF THE INTERIOR

-	3	FORM APPROVE
		OMB No. 1004-013
2011		Expires: July 31, 20

	EINTERIOR	. MAF	1110	Expires: July 31, 2010				
	REAU OF LAND MA			. 14 %	5. Lease Serial No. 14-20-603-270			
SUNDRY N	NOTICES AND REP form for proposals	ORTS ON V	VELLS		6. If Indian, Allottee of NAVAJO	or Tribe Name		
abandoned well.	Use Form 3160-3 (	(APD) for su	ch proposal:	S.	INAVAJO			
SUBMIT IN TRIPLICATE - Other instructions on page 2.					7. If Unit of CA/Agreement, Name and/or No.			
1. Type of Well					0.37.11.31			
✓ Oil Well Gas V					8. Well Name and No VARIOUS			
2. Name of Operator NNOGC EXPLORATION AND PRO	DDUCTION, LLC				9. API Well No. VARIOUS			
3a. Address P.O. BOX 4439 WINDOW ROCK, AZ 86511		928-871-488	<i>(include area coa</i>	le)	10. Field and Pool or Exploratory Area TOHONADLA			
4. Location of Well (Footage, Sec., T.,		on)			11. Country or Parish,			
SECTIONS 1 AND 2 TOWNSHIP 42 SOUTH, F					SAN JUAN COUNT			
12. CHEC	CK THE APPROPRIATE B	SOX(ES) TO IND	ICATE NATURE	OF NOTIO	CE, REPORT OR OTH	ER DATA		
TYPE OF SUBMISSION			TYF	PE OF ACT	ION			
Notice of Intent	Acidize Alter Casing Casing Repair		en ure Treat Construction	Recl	amation  omplete	Water Shut-Off' Well Integrity ✓ Other VENT		
Subsequent Report	Change Plans		and Abandon		porarily Abandon	Other		
Final Abandonment Notice	Convert to Injection	Plug	Back	Wate	er Disposal			
	O CONTINUE VENTING HESE OIL WELLS HAVE OVED AND APPROPRIA E TANK BATTERY ON TH	BEEN VENTIN TE INFRASTRI	G SINCE FIRST JCTURE IS IN F 70 LEASE ARE: /1958	PRODUC LACE FO	TION VENTING IS	MAY - 9 2014 MINERALS I MINERALS I MAYAJO NATION	01011	
14. I hereby certify that the foregoing is tr	ue and correct. Name (Printe	ed/Typed)				1 4		
RICHARD A. FERRIS			Title CHIEF OPERATIONS ENGINEER					
Signature Richard A. Ferrin			Date 03/11/201	4				
	THIS SPACE	FOR FEDER	RAL OR STA	TE OFF	ICE USE			
Approved by	1 1		1			A A		
Conditions of approval, if any, are attached hat the applicant holds legal or equitable to entitle the applicant to conduct operations to	tle to those rights in the subject hereon.	ct lease which wor	office	Pt.5		vate 5 6 14		
Title 18 U.S.C. Section 1001 and Title 43 U.S.C. Section 1001 and	J.S.C. Section 1212, make it a	a crime for any per	son knowingly and	willfully to	make to any department	or agency of the United States ar	ny false,	

(Instructions on page 2)